

AD-A187 849

ALPENA MICHIGAN REVISED UNIFORM SUMMARY OF SURFACE  
WEATHER OBSERVATIONS PARTS A-F(U) AIR FORCE  
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A.

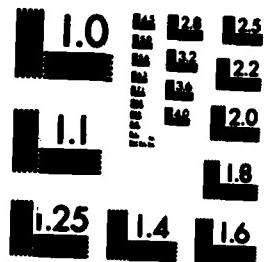
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UNCLASSIFIED

OCT 87 USAFEIAC/DI-87/039

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AD-A187 849

USMI 726390

USAFTAC/DS-87/059

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USAFTAC  
Air Weather Service (MAC)



REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

ALPENA MI MBC# 726390  
N 46 57 W 067 53 ELEV 746 FT KLIZ  
PARTS A - F HOURS SUMMARIZED 0000 - 2300 LST  
PERIOD OF RECORD:  
HOURLY OBSERVATIONS: AUG 77 - JUL 87  
SUMMARY OF DAY DATA: AUG 50 - JUL 87

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REPORT DOCUMENTATION PAGE

- 1a. Report Security Classification: UNCLASSIFIED
3. Distribution/Availability of Report: Approved for public release; Distribution unlimited.
4. Performing Organization Report Number: USAFETAC/DS-87/059.
5. Monitoring Organization Report Number: USAFETAC/DS-87/059.
- 6a. Name of Performing Organization: USAFETAC/OL-A  
6b. Office Symbol:  
6c. Address: Federal Building, Asheville, NC 28801-2723.
11. Title: (RUSSWO) Alpena MI
12. Personal Author(s):
- 13a. Type of Report: Data Summary  
13b. Time Covered: Sep 59-Apr 87.
14. Date of Report: Oct 87
15. Page Count: 312
16. Supplementary Notation:
17. COSATI Codes: Field--04, Group--02
18. Subject Terms: \*climatology; \*weather; meteorological conditions; winds; precipitation; temperature; visibility; barometric pressure; relative humidity; sky cover; psychrometric data; ceiling; Revised Uniform Summary of Surface Weather Observations (RUSSWO); Alpena MI; Michigan; Phelps-Collins Field MI; USMI726390.
19. Abstract: A six-part statistical data summary of surface weather observations for: Alpena MI. Summary consists of: PART A, Weather Conditions and Atmospheric Phenomena; PART B, Precipitation; PART C, Surface Winds; PART D, Ceiling and Visibility; PART E, Psychrometric Summaries; PART F, Pressure Summaries. See USAFETAC/TN-83/001 (ADAL32186), An Aid for Using the Revised Uniform Summary of Surface Weather Observations (RUSSWO) for complete description of contents and instructions for use. ←
20. Distribution/Availability of Abstract: Same as report.
21. Abstract Security Classification: UNCLASSIFIED.
- 22a. Name of Responsible Individual: Marianne L. Cavanaugh  
22b. Telephone: (618)256-2625  
22c. Office Symbol: USAFETAC/LDD

**REVIEW AND APPROVAL STATEMENT**

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This document has been reviewed and is approved for publication.

**FOR THE COMMANDER**

  
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STATION NAME: ALPENA MI

STATION NUMBER: 726390

CALL ID: KAPN

PERIOD OF RECORD:

HOURS SUMMARIZED: 0000-2300 LST

HOURLY OBSERVATIONS: MAY 77 - APR 87

SUMMARY OF DAY DATA: SLP 59 - APR 87

TIME CONVERSION LST TO GMT: +5

DATE PRODUCED: 16 SEP 1987

OL-A/USAFETAC/HPC/ANS  
ASHEVILLE NC 26801

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS: ALL RECORD OR RECORD SPECIAL OBSERVATIONS RECORDED ON THE AWS FORMS 1D/10A AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY DATA (DAILY OBSERVATIONS): DATA COMPILED FROM ALL AVAILABLE OBSERVATIONS WHICH INCLUDES HOURLY OBSERVATIONS AND DAILY DATA RECORDED IN COLUMNS 66-73, AWS FORMS 1D/10A.

DESCRIPTION OF SUMMARIES: PRECEDING EACH PART OF THE RUSSWO IS A BRIEF DISCUSSION OF THE SUMMARY INCLUDING THE MANNER OF PRESENTATION.

STANDARD 3-HOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-HOUR TIME PERIODS IN LOCAL STANDARD TIME: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 LST.

FOR A DETAILED DESCRIPTION OF EACH SUMMARY WITH EXAMPLES AND EXERCISES ON ITS USAGE, SEE USAFETAC/TN-83-001, "AN AID FOR USING THE REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS" (RUSSWO).

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PART F: PRESSURE SUMMARIES

AWSMSC NUMBERS: THIS NUMBER IS THE AIR WEATHER SERVICE MASTER STATION CATALOG NUMBER. THIS NUMBER IS COMPRISED OF THE WMO NUMBER WITH THE ADDITION OF A SUFFIX (0 THROUGH 9). IN CASES WHERE THERE IS NO DESIGNATED WMO NUMBER, A 5-DIGIT NUMBER IS CREATED IN AGREEMENT WITH WMO RULES PLUS A SIXTH DIGIT. THESE NUMBERS ARE ALSO REFERRED TO AS DATSAV OR USAFETAC NUMBERS WHICH UNIQUELY IDENTIFY MORE THAN 15,000 REPORTING STATIONS WORLD WIDE.

STATION NO OR SUBMGRY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV (FT.)	CALL SIGN	OMO NUMBER			
726390	ALPENA/PHELPS COLLINS MI	N 45 04	W 083 34	689	APN	72639			
<b>STATION LOCATION AND INSTRUMENTATION HISTORY</b>									
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FIELD (FT)	ST. BARO.	
1.	Alpena MI/Phelps-Collins Field	WBAS	8 Aug 59	* May 82	N 45 04	W 083 34	689	691.95	24
2.	Same	WBAS	Jun 82	Apr 87	Same	Same	689	691.95	24
* Dec 75 Last A-4 Form rec at NCC.									
NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION					REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE		
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND				
1	Sep 59	Located on the roof	F-104	F-420C	33				
2	Dec 68	Same	F-420C	Same	Same				
3	Jul 74	Ground	Same	Same	22				
USAFETAC FORM NOV 85 0-19 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.									
CONTINUED ON REVERSE SIDE									

PPPPPPPP	AAAAAA	RRRRRRR	TTTTTTTT	AAAAAA
PPPPPPPP	AAAAAA	RRRRRRK	TTTTTTTT	AAAAAA
PP	AA	RR	TT	AA
PP	AA	RR	TT	AA
PPPPPPPP	AA	RRRRRRPR	TT	AA
PPPPPPPP	AAAAA	RRRRRRR	TT	AAAAA
PP	AAAAA	RR	TT	AAAAA
PP	AA	RR	TT	AA
PP	AA	RR	TT	AA
PP	AA	RR	TT	AA

WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

WEATHER CONDITIONS SUMMARY

1. A PERCENTAGE FREQUENCY OCCURRENCE SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON HOURLY OBSERVATIONS.
3. SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ATMOSPHERIC PHENOMENA SUMMARY

1. A PERCENTAGE FREQUENCY OF DAYS SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON SUMMARY OF DRY DATA.
3. SUMMARIZED BY MONTH WITH ALL HOURS AND ALL YEARS COMPILED.

DEFINITIONS:

THUNDERSTORMS: ALL REPORTED THUNDERSTORMS, TORNADOES AND WATERSPOUTS.

RAIN AND/OR DRIZZLE: ALL REPORTED RAIN AND OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING RAIN AND/OR FREEZING DRIZZLE (GLAZE): ALL REPORTED FREEZING RAIN OR FREEZING DRIZZLE.

SNOW AND/OR SLEET: SNOW INCLUDING SNOW PELLETS AND GREIMS, ICE CRYSTALS AND PELLETS, AND/OR SLEET (ICE PELLETS).

FAIL: ALL REPORTED FAIL.

ALL PRECIPITATION: THIS CATEGORY INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY APPEAR IN A SINGLE OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL COLUMNS MAY EXCEED THE PERCENTAGES IN THIS COLUMN.

FOG: ALL REPORTED FOG, ICE FOG AND GROUND FOG.

SMOKE AND/OR HAZE: ALL REPORTED SMOKE, HAZE AND ANY COMBINATION THEREOF.

BLLOWING SNOW: ALL REPORTED BLOWING SNOWS INCLUDING DRIFTING WHEN REPORTED.

DUST AND/OR SAND: ALL REPORTED DUST, SAND, BLOWING DUST, BLOWING SAND AND ANY COMBINATION THEREOF.

THE ATMOSPHERIC PHENOMENA SUMMARY (DAYS WITH) INCLUDES ONLY THOSE REPORTS WHEN THE PHENOMENA VISIBILITY LESS THAN 5/8 MILES (1000 METERS).

ALL OBSTRUCTIONS TO VISION: INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION (FOG THRU DUST/SAND) AND BLOWING SPRAY. BECAUSE MORE THAN ONE PHENOMENA PER OBSERVATION MAY OCCUR, THE SUM OF THE INDIVIDUAL COLUMNS MAY EXCEED THIS COLUMN.

NOTES:

1. A VALUE IN THE TABLES OF ".C" INDICATES LESS THAN .001 OCCURRENCE WHICH IS USUALLY ONLY ONE OCCURRENCE
2. MLTAR STATIONS (BEGINNING IN JAN 1968) AND SYNCOPIC REPORTING STATIONS RECORDED ON THE AWS FORMS IC/10A AND TRANSMITTED LONGLINE ONLY THE HIGHEST ORDER OF ATMOSPHERIC PHENOMENA OBSERVED. BEGINNING IN JAN 1970, METAF STATIONS RECORDED ALL OBSERVED PHENOMENA BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE OBSERVATION CONTAINED RAIN, FOG AND SMOKE, ALL THREE WILL APPEAR ON THE AWS FORMS IC/10A, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEREFORE ONLY THE RAIN APPEARS IN OUR DATA BASE FOR HOURLY SUMMARIZATION. THIS PRACTICE EFFECTS THE PERCENTAGES IN THE TABLES.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 75-87  
MONTH: JAN

HOURS (LST)	TSTM	RAIN L/D/P DRIZZLE	FRZNG RAIN L/D/P DRIZZLE	SNOW L/D/R SLEET	% OBS WITH PRECIP	FOG	SMOKE L/D/R HAZE	DUST L/D/R SAND	% OBS W/CBSI TO VISION	TOTAL OBS
06-02		1.6	.3	45.3	46.7	9.5	1.2	4.0	14.0	930
07-05		1.3	.5	44.5	45.9	9.4	.9	4.7	14.4	930
08-08		1.4	1.1	47.2	48.7	12.0	1.0	5.6	18.2	930
09-11		1.2	1.5	41.5	43.2	19.0	2.2	4.7	25.4	930
12-14		1.7	.5	37.0	38.6	13.1	3.9	9.0	24.9	930
15-17		1.3	.1	32.6	25.6	9.1	4.1	7.3	19.2	930
18-20		1.2	.5	35.5	40.6	12.4	1.9	5.6	18.9	930
21-23		1.1	.8	44.2	44.9	10.3	1.6	5.3	16.2	930
TOTALS		1.4	.7	41.5	42.6	11.9	2.1	5.7	18.9	7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 72-87  
MONTH: FEB

HOURS (LST)	TSTM	RAIN L/D/P DRIZZLE	FRZNG RAIN L/D/P DRIZZLE	SNOW L/D/R SLEET	% OBS WITH PRECIP	FOG	SMOKE L/D/R HAZE	DUST L/D/R SAND	% OBS W/CBSI TO VISION	TOTAL OBS	
07-02		3.3	1.1	29.9	34.0	16.7	.6	.8	17.7	646	
08-05		2.1	.6	32.0	34.5	16.3	.8	1.1	18.0	646	
08-08		2.1	1.1	36.1	28.4	18.9	1.2	1.1	20.8	646	
09-11		.1	2.7	1.1	32.6	35.3	23.6	4.1	2.2	29.3	646
12-14		2.6	.7	27.5	30.0	17.3	6.9	3.9	27.4	646	
15-17		2.4	.6	24.7	27.0	14.3	5.8	2.6	22.1	646	
18-20		1.9	1.3	22.7	25.2	18.3	2.6	.9	20.7	646	
21-23		2.0	1.9	28.5	32.0	16.7	1.3	1.2	18.6	646	
TOTALS		.0	2.5	1.1	29.3	32.1	17.6	2.9	1.7	21.9	6768

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87  
MONTH: MAR

FOURS (LST)	TSTMS	RAIN C/OR DRIZZLE	FRZING C/OR DRIZZLE	SNOW C/OR SLEET	% OBS PRECIP	FALI WITH PRECIP	FOG	SMOKE C/OR HAZE	DUST C/OR SAND	% OBS W/CBS TO VISION	TOTAL OBS
00-02	.1	6.8	.2	18.2	24.4	17.2	1.0	.9	18.4	930	
03-05		5.1	.4	20.6	25.1	18.6		1.0	19.6	930	
06-08		5.9	1.0	18.6	24.9	24.5	1.4	1.4	26.7	930	
09-11		5.6	.9	17.7	23.5	21.7	3.9	2.3	27.4	930	
12-14	.1	7.3	.2	13.2	20.2	15.4	5.1	3.1	23.0	930	
15-17	.1	5.4	.6	12.3	18.1	14.7	4.5	1.5	20.0	930	
18-20	.1	5.6	1.0	12.9	19.1	17.1	3.5	.9	20.6	930	
21-23	.4	5.2	1.0	17.8	23.4	16.3	1.9	.6	16.3	930	
TOTALS	.1	5.7	.7	16.4	22.5	18.2	2.7	1.5	21.6	7440	

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR

FOURS (LST)	TSTMS	RAIN C/OR DRIZZLE	FRZING C/OR DRIZZLE	SNOW C/OR SLEET	% OBS PRECIP	FALI WITH PRECIP	FOG	SMOKE C/OR HAZE	DUST C/OR SAND	% OBS W/CBS TO VISION	TOTAL OBS	
00-02	.7	12.5		8.1	.1	19.4	17.7	1.7	.6	19.4	900	
03-05	.4	10.4	.1	8.0	17.2	20.3	1.1	.6	21.4	900		
06-08		11.0	.2	8.4	19.2	25.1	3.0	.8	27.9	900		
09-11	.1	12.4		7.9	19.0	18.8	5.2	.7	23.8	900		
12-14	.3	10.3		6.0	16.6	13.7	4.3	.7	17.9	900		
15-17	.3	12.7		5.4	17.6	14.2	2.4	.2	16.4	900		
18-20	.2	11.9		7.7	16.6	15.4	3.2	.1	18.4	898		
21-23	.1	11.7	.1	8.6	19.5	16.1	3.0	.3	18.5	897		
TOTALS	.2	11.7	.1	7.6	.0	16.4	17.7	3.0	.5	20.5	7195	

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY

HOURS (LST)	TSTMS	RAIN L/OP DRIZZLE	FRZING L/OP RAIN	SNOW L/OP SLEET	HAIL WITH PRECIP	FOG	SMOKE L/OP HAZE	DUST L/OP BLLOWING SNOW	% OBS W/CBSI SAND	TOTAL OBS
00-02	.4	.0.1		.5	d.6	17.1	4.6		20.0	930
03-05	.3	9.2		.1	9.4	20.8	4.3		23.5	930
06-08	.4	11.9		.2	12.2	24.0	6.7		28.3	930
09-11	.2	11.0		.3	11.3	13.1	11.4		23.5	930
12-14	.4	10.8			10.6	9.9	11.8		20.6	930
15-17	2.5	10.9		.4	11.3	8.7	11.1		16.8	930
18-20	1.6	11.7		.4	12.2	12.0	10.5		21.2	930
21-23	.8	11.2		.6	11.6	15.3	8.0		21.0	930
TOTALS	.6	10.6		.3	11.0	15.1	8.6		22.2	7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN

HOURS (LST)	TSTMS	RAIN L/OP DRIZZLE	FRZING L/OP RAIN	SNOW L/OP SLEET	HAIL WITH PRECIP	FOG	SMOKE L/OP HAZE	DUST L/OP BLLOWING SNOW	% OBS W/CBSI SAND	TOTAL OBS
00-02	.6	0.9			6.9	15.2	6.3		19.1	900
03-05	1.6	0.1			6.1	19.8	5.4		22.9	900
06-08	.9	10.2			10.4	20.8	9.6		27.7	900
09-11	.7	0.4			6.4	9.3	9.6		17.9	900
12-14	.6	5.7			5.7	5.4	8.3		12.8	900
15-17	1.1	6.0			6.0	5.7	9.4		13.6	900
18-20	1.1	5.3			5.3	5.8	10.0		14.8	900
21-23	.7	6.6			6.8	11.0	9.4		18.4	900
TOTALS	.9	6.9			6.9	11.6	8.5		18.4	7200

GLOBAL CLIMATOLOGY BRANCH  
L'SAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL

FOURS (LST)	TSTMS	RAIN	FRZING	SNOW	% OBS	FOG	SMOKE	DUST	% OBS		
		L/D/R	RAIN	E/OP	WITH		E/OP	E/OP	W/CBST		
		DRIZZLE	DRIZZLE	SLEET	PRECIP		PAZE	SNOW	SAND	TO	OBS
00-02	1	1.2	4.0			4.0	15.8	11.9		22.5	930
03-05	1	1.7	5.9			5.9	22.4	10.6		27.5	930
06-08	1	1.3	6.7			6.7	25.6	14.3		33.7	930
09-11	1	.9	4.6			4.6	8.3	17.3		23.9	930
12-14	1	1.5	4.4			4.4	5.2	17.5		20.8	930
15-17	1	2.5	5.5			5.9	4.5	17.1		20.6	930
18-20	1	2.0	4.6			4.6	6.3	18.4		23.3	930
21-23	1	1.9	5.2			5.2	13.5	15.9		23.4	930
TOTALS	1	1.6	5.2			5.2	12.7	15.4		24.5	7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG

FOURS (LST)	TSTMS	RAIN	FRZING	SNOW	% OBS	FOG	SMOKE	DUST	% OBS		
		L/D/R	RAIN	E/OP	WITH		E/OP	E/OP	W/CBST		
		DRIZZLE	DRIZZLE	SLEET	PRECIP		PAZE	SNOW	SAND	TO	OBS
00-02	1	1.2	7.6			7.6	25.9	5.5		29.4	930
03-05	1	.8	7.0			7.0	23.7	4.6		35.4	930
06-08	1	.4	6.6			6.6	40.0	7.7		43.1	930
09-11	1	1.1	6.2			6.2	15.9	16.6		29.8	930
12-14	1	.9	7.1			7.1	7.7	17.2		23.2	930
15-17	1	2.0	7.7			7.7	6.1	16.1		22.4	930
18-20	1	3.0	6.4			8.4	14.4	15.3		27.1	930
21-23	1	1.3	7.0			7.0	23.8	12.5		32.4	930
TOTALS	1	1.3	7.4			7.2	21.2	11.9		30.4	7440

GLOEAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP

HOURS (LST)	TSTMS	RAIN & OR DRIZZLE	FRZING & OR RAIN SLEET	SNOW & OR HAIL PRECIP	% OBS	FOG	SMOKE & OR HAZE	DUST & OR SNOW	% OBS	TOTAL TO VISION	OBJS
00-02		1.7	12.3		12.3	24.0	5.0		26.0	900	
03-05		2.0	12.0		12.0	26.7	4.2		28.2	900	
06-08		1.3	13.2		13.2	36.2	7.1		38.7	900	
09-11		.3	11.7		11.7	23.0	11.6		31.7	900	
12-14		.7	10.3		10.3	12.6	10.6		22.1	900	
15-17		.7	12.3		12.3	15.3	11.4		23.7	900	
18-20		.8	13.1		13.1	18.7	10.4		26.7	900	
21-23		1.0	10.9		10.9	20.2	7.3		25.4	900	
TOTALS		1.1	12.0		12.0	21.9	6.5		27.6	7200	

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT

HOURS (LST)	TSTMS	RAIN & OR DRIZZLE	FRZING & OR RAIN SLEET	SNOW & OR HAIL PRECIP	% OBS	FOG	SMOKE & OR HAZE	DUST & OR SNOW	% OBS	TOTAL TO VISION	OBJS	
00-02		.4	9.5	2.9	11.9	21.0	3.0		22.0	930		
03-05		.3	11.5	1.9	15.0	23.8	2.2		24.3	930		
06-08		.3	13.1	1.8	14.7	29.7	1.6		30.0	930		
09-11		.2	13.4	1.5	14.6	19.7	7.1		24.7	930		
12-14		.1	13.0	.8	.1	13.7	10.8	6.5		17.2	930	
15-17		.0	9.8	.9	10.5	11.4	6.8		17.6	930		
18-20		.0	10.9	1.5	12.0	14.3	6.3		19.0	930		
21-23		.0	9.7	3.0	12.0	17.0	4.0		19.6	930		
TOTALS		.2	11.3	1.8	.0	12.6	18.5	6.7		21.8	7440	

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV

HOURS (LST)	TSMs	RAIN 6/OR DRIZZLE	FRZNG RAIN 6/OR DRIZZLE	SNOW 6/OR SLEET	HAIL WITH PRECIP	% OBS	FOG	SMOKE 6/OR BLOWING HAZE	DUST 6/OR W/CBS SAND	% OBS	TOTAL TO OBS
00-02		.5		14.2		23.4	14.7	1.1	.1	15.4	900
03-05		.2	6.0	.1	16.0	24.4	15.6	1.1	.1	15.9	900
06-08			8.0	.3	19.1	27.6	20.1	1.8	.4	20.6	900
09-11		.1	10.0		16.6	26.7	22.7	4.6	.8	26.2	900
12-14			11.4		14.6	25.0	16.2	5.2	1.1	21.7	900
15-17			11.4		14.0	25.0	16.3	3.9	.8	20.4	900
18-20			12.0		17.3	28.8	17.0	2.7	.3	19.7	900
21-23			10.1	.2	15.9	26.0	15.4	1.3	.3	16.9	900
TOTALS		.0	10.3	.1	16.0	25.9	17.3	2.7	.5	19.6	7200

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC

HOURS (LST)	TSMs	RAIN 6/OR DRIZZLE	FRZNG RAIN 6/OR DRIZZLE	SNOW 6/OR SLEET	HAIL WITH PRECIP	% OBS	FOG	SMOKE 6/OR BLOWING HAZE	DUST 6/OR W/CBS SAND	% OBS	TOTAL TO OBS
00-02		4.7	1.1	32.9		37.8	15.8	.8	1.1	17.0	930
03-05		5.4	.6	35.1		40.4	14.6	.3	1.0	15.6	930
06-08		6.0	1.0	40.5		46.7	17.5	.4	1.1	18.7	930
09-11		5.2	.5	36.3		41.4	23.5	1.1	1.2	25.7	930
12-14		4.7	.6	36.2		41.1	20.2	3.2	4.0	27.1	930
15-17		4.7	1.1	33.1		36.0	19.4	4.9	3.2	26.7	930
18-20		.2	4.6	1.4	30.6	35.7	19.6	4.1	1.4	22.9	930
21-23		.1	5.5	1.2	35.3	39.5	17.6	2.7	1.4	20.3	930
TOTALS		.0	5.1	.9	35.0	40.1	18.5	2.2	1.8	21.8	7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87  
MONTH: ALL

HOURS (LST)	TSTMS	RAIN	FRZNG	SNOW	% OBS WITH PRECIP	FOG	SMOKE	DUST &/OR BLLOWING HAZE	W/CBS SAND	% OBS TO VISION	TOTAL OBS
		L/OR DRIZZLL	Rain	L/OR SLEET			E/DR				
JAN ALL		1.4	.7	41.5	42.4	11.9	2.1	5.7		18.9	7440
FEB		.0	2.5	1.1	29.3	32.1	17.8	2.9	1.7	21.9	6768
MAR		.1	5.9	.7	16.4	22.3	18.2	2.7	1.5	21.8	7440
APR		.3	11.7	.1	7.6	18.4	17.7	3.0	.5	20.5	7195
MAY		.8	10.6		.3	11.0	15.1	8.6		22.2	7440
JUN		.9	6.9			6.9	11.6	8.5		18.4	7200
JUL		1.6	5.2			5.2	12.7	15.4		24.5	7440
AUG		1.3	7.2			7.2	21.2	11.9		30.4	7440
SEP		1.1	12.0			12.0	21.9	8.5		27.8	7200
OCT		.2	11.3		1.8	.0	12.6	18.5	4.7	21.8	7440
NOV		.0	10.3	.1	16.0	25.9	17.3	2.7	.5	19.6	7200
DEC		.0	5.1	.9	35.0	40.1	18.5	2.2	1.8	21.8	7440
TOTALS		.5	7.5	.3	12.3	.0	19.7	16.9	6.1	1.0	22.5 87643

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 62, 64-87  
MONTHS: ALL

MONTH	TSMNS	RAIN	FRZNG	SNOW	% OBS	SMOKE	DUST	% OBS	MONTHS	ALL	TOTAL	
	L/OP DRIZZLE	RAIN G/OR DRIZZLE	RAIN G/OR SLEET	SLEET	WITH PRECIP	FOG G/OR HAZE	G/OR BLOWING SNOW	G/OR SAND	W/GOST	TO	OBJS	
JAN	.5	14.7	9.7	80.6	84.7	30.4	10.0	17.7	44.7	713		
FEB	.2	14.7	8.3	71.5	76.0	30.7	16.8	10.9	43.3	649		
MAR	2.6	24.6	6.7	51.5	.1	67.2	38.6	17.2	8.2	45.6	682	
APR	7.3	44.1	1.2	24.7	.5	56.2	36.8	15.0	1.4	41.1	660	
MAY	12.4	49.5	.1	5.0	.7	50.8	40.1	22.4		44.9	695	
JUN	18.2	51.5			.8	51.5	46.1	31.5	.3	52.7	660	
JUL	22.9	47.2			.4	46.9	44.2	37.5		52.7	693	
AUG	20.4	49.0			.6	49.1	53.0	37.6		58.4	692	
SEP	13.6	57.3		.3	.3	57.3	52.7	27.7		55.9	660	
OCT	4.3	55.1		12.8	.5	64.4	45.8	21.9		49.6	657	
NOV	.8	40.0	1.0	48.6	73.0	42.7	14.1	2.5	47.1	630		
DEC	.6	25.2	10.3	77.0	86.6	38.0	14.4	11.3		49.9	682	
TOTALS		8.6	39.7	3.1	31.0	.3	63.3	41.6	22.2	4.3	48.8	8073

PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	BBBBBBBB
PPPPPPPP	AAAAAAA	RRRRRRRR	TTTTTTTT	BBBBBBBB
PP PP	AA AA	RR RR	TT	BB BB
PP PP	AP AP	RR RR	TT	BB BB
PPPPPPPP	AA AA	RRRRRRRR	TT	BBBBBBBB
PPPPPPPP	AAAAAA	R P R R R R	TT	BBBBBBBB
PP	APAPAPAP	RP RP	TT	BB BB
PP	AA AA	RR RR	TT	BB BB
PP	AA AA	RR RR	TT	BBBBBBBB
PP	AA AP	RR RR	TT	BBBBBBBB

PRECIPITATION, SNOWFALL AND SNOW DEPTH SUMMARIES

PERCENTAGE FREQUENCY OF VARIOUS DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES:

THESE SUMMARIES DERIVE FROM SUMMARY OF DAY DATA.

DATA IS SUMMARIZED MONTHLY AND ANNUALLY WITH ALL YEARS COMBINED.

DISPLAYED ARE: PERCENT OF DAYS WITH MEASURABLE AMOUNTS, A PERCENT OF DAYS WITH NO AMOUNTS, TRACES, GIVEN AMOUNTS, MEANS, GREATEST AMOUNTS AND LEAST AMOUNTS (THE STATISTICAL VALUES ARE NOT INCLUDED IN THE SNOW DEPTH SUMMARY BECAUSE OF THEIR DOUBTFUL AND LIMITED VALUE).

ALSO PROVIDED ARE THE OBSERVATION COUNTS.

A VALUE OF ".0" IN THESE TABLES INDICATES LESS THAN .05% WHICH USUALLY INDICATES ONLY ONE OCCURRENCE.

EXTREME DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA

PRESENTED ARE THE EXTREME DAILY AMOUNTS OF PRECIPITATION, SNOWFALL AND SNOW DEPTH BY INDIVIDUAL MONTH AND YEAR.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

AN ASTERISK "\*" PRINTED IN THE TABLES INDICATES THAT THE EXTREME VALUE FOR THAT YEAR AND MONTH DERIVES FROM AN INCOMPLETE MONTH (AT LEAST ONE DAY OF THE MONTH IS MISSING).

WHEN A MONTH HAS VALID OBSERVATIONS REPORTED BUT NO OCCURRENCES, ZEROS ARE DISPLAYED IN THE TABLES.

EXTREME DAILY PRECIPITATION: ".00" EQUALS NONE FOR THE MONTH (HUNDREDTHS)

EXTREME DAILY SNOWFALL: ".0" EQUALS NONE FOR THE MONTH (TENTHS)

EXTREME DAILY SNOW DEPT: "0" EQUALS NONE FOR THE MONTH (.ONE INCHES)

TOTAL MONTHLY AMOUNTS OF PRECIPITATION AND SNOWFALL SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA.

DATA PRESENTED BY YEAR AND MONTH.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

AN ASTERISK "\*" IN THE TABLES INDICATES THAT ONE OR MORE DAYS WERE MISSING FOR THE MONTH.

NO OCCURRENCES FOR THE MONTH ARE INDICATED BY ZEROS.

IF THE AMOUNT IS A TRACE, THEN "TRACE" IS PRINTED IN THE TABLES.

STATISTICAL VALUES DO NOT INCLUDE MEASUREMENTS FROM INCOMPLETE MONTHS.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 706390 STATION NAME: ALPENA MI PERIOD OF RECORD: 59-87

MONTH	AMOUNTS IN INCHES												% DAYS WITH MEAS AMTS	TOTAL OBS	MONTHLY AMOUNTS MEAN	GREATEST LENGTH
	NONE	TRACE	.01	.05	.10	.25	.50	1.00	2.50	5.00	10.00	OVER 10				
JAN	13.9	40.9	8.3	15.0	8.2	6.2	4.1	1.2	.2				45.2	868	1.63	3.31
FEB	21.0	39.6	8.0	11.9	7.5	6.8	3.2	2.0	.1				39.4	791	1.33	3.17
MAR	33.9	25.9	6.7	9.4	7.3	8.9	4.4	3.5	.1				40.2	868	2.01	4.44
APR	43.3	18.7	4.9	8.8	5.2	8.0	7.6	3.8	.1				38.5	840	2.25	4.15
MAY	49.9	12.1	4.4	7.8	5.3	6.4	6.8	2.8	1.6				38.0	837	2.93	8.29
JUN	49.5	13.7	3.7	7.7	6.6	6.8	5.6	5.1	1.9	.1			36.8	810	3.10	8.37
JUL	53.9	14.7	3.0	7.9	3.7	6.2	4.5	3.9	2.4	.1			31.9	837	3.06	7.17
AUG	51.7	13.0	3.3	7.6	3.5	6.9	6.6	5.3	1.9	.1			35.2	837	3.33	5.92
SEP	43.6	14.0	3.3	10.1	6.9	8.6	7.3	4.4	1.7	.1			42.4	840	3.22	7.12
OCT	40.8	19.6	4.8	11.6	6.1	9.0	5.2	2.3	.6				39.6	868	2.08	4.78
NOV	29.3	27.6	4.5	11.6	7.6	10.5	6.4	2.1	.4				43.1	840	2.13	7.45
DEC	14.3	34.2	8.4	17.9	7.0	10.9	5.0	1.7	.6				51.5	868	2.05	4.44
ANNUAL	137.1	22.81	5.3	110.61	6.21	8.31	5.61	3.31	1.01	.01			40.1	10104	25.12	

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

EXTREME VALUES OF PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	24 HOUR AMOUNTS IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59													
60	.51	.55	.68	.88	1.01	1.04	2.34	.58	.50	.45	.56	.32	2.34
61	.05	.49	.85	.85	.44	.62	.62	1.23	1.03	.28	.81	.36	1.83
62	.77	.69	.73	.29	1.25	1.08	.51	.86	.91	.23	.34	.59	1.25
63	.37	.21	.91	.64	1.87	1.03	.68	1.37	.80	.34	.30	.46	1.87
64	.49	.16	.68	.63	1.25	.56	1.15	.89	.93	.35	1.00	.40	1.25
65	.87	.52	.95	1.12	2.21	.95	.34	.97	.71	.36	.85	.71	2.21
66	.29	.55	.71	.22	.33	.92	.53	.37	.94	.74	1.82	.62	1.82
67	1.11	.93	.57	.62	.46	1.78	1.24	1.07	.50	.52	.94	.54	1.78
68	.29	.69	.30	.51	1.47	.62	1.02	1.74	3.02	.58	.94	.86	3.02
69	.45	.13	.51	.58	.82	2.52	.79	.79	.47	1.46	.41	.32	2.52
70	.45	.11	.89	.85	.55	1.05	1.57	.34	1.07	.43	.56	1.02	1.57
71	.58	.79	.83	.55	.61	1.65	1.73	1.53	.29	.33	.58	1.63	1.85
72	.10	.38	1.19	.44	.94	.55	1.82	1.10	1.06	.79	.38	1.23	1.82
73	.25	.17	.72	.77	1.61	.42	2.38	2.61	1.13	1.20	.34	.61	2.61
74	.81	1.01	.14	.53	.79	.56	2.80	.84	.58	.45	.45	.29	2.80
75	.78	.44	.54	.68	.97	1.25	2.01	1.23	.81	.26	.58	.30	2.01
76	.34	.40	.36	.43	.70	1.36	.49	1.20	.52	.45	.53	.13	1.36
77	.35	.68	.63	.62	.91	.75	1.53	.75	1.66	.67	.42	.57	1.66
78	1.83	.26	.72	.40	.88	.60	1.32	.64	1.45	.57	.41	.60	1.83
79	.79	.37	.61	.82	.54	1.12	1.43	.68	.12	.60	.81	.61	1.43
80	.20	.15	.21	.86	.71	1.26	.90	1.73	.73	.18	.31	.64	1.73
81	.10	.69	.28	.95	.41	.64	.46	.44	.26	1.16	.64	.52	1.16
82	.72	.04	.41	.43	.38	.83	.58	.99	1.04	.30	.84	.78	1.04
83	.37	.55	.66	.67	2.11	.72	.79	.70	1.00	.92	.39	.33	2.11
84	.15	.26	.72	.88	.61	1.55	.62	1.84	1.21	.62	.94	.52	1.84
85	.54	.60	.93	.58	.62	.40	1.16	.99	.89	1.70	.35	1.28	1.70
86	.24	.45	.61	.74	.65	.79	1.83	.81	1.54	1.28	.36	.17	1.83
87	.37	.28	.50	.29									
PLAN	.5.6	.445	.641	.636	.944	1.023	1.209	1.055	.970	.648	.620	.601	1.661
S.D.	.37	.249	.254	.219	.530	.519	.673	.504	.566	.398	.326	.344	.468
TOTAL OBS	P68	791	868	540	837	810	837	837	840	868	840	668	10104

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

MONTHLY PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	TOTAL MONTHLY PRECIPITATION IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59													
60	1.68	1.45	1.48	3.17	4.29	3.74	2.90	1.85	2.06	2.15	2.06	.96	27.79
61	.16	1.41	2.67	1.68	1.45	2.70	1.65	2.66	5.59	1.14	2.45	1.33	25.29
62	2.33	2.79	.86	1.43	3.49	2.94	.95	2.82	2.87	1.11	.78	1.61	23.96
63	.96	.67	3.35	1.44	5.46	3.78	2.11	4.08	1.92	.95	1.67	1.85	28.24
64	1.28	.36	1.91	3.34	3.04	1.12	4.30	3.03	3.63	1.10	2.34	1.52	26.97
65	2.79	1.86	1.25	3.43	4.24	2.55	1.04	3.65	4.64	1.37	2.70	1.93	31.85
66	1.50	1.16	2.80	1.61	1.05	2.41	.91	1.76	2.15	2.12	1.45	2.38	27.32
67	3.15	2.11	1.14	3.08	1.94	8.14	3.12	3.17	1.98	2.28	2.67	2.39	35.17
68	1.19	1.75	.67	1.57	2.55	3.60	2.37	5.30	6.67	1.98	2.98	3.02	34.05
69	2.23	.74	1.48	1.71	3.11	8.37	1.82	2.50	2.18	4.76	1.64	1.26	31.42
70	1.81	.27	2.03	2.00	1.79	1.76	4.41	.92	4.76	1.47	2.18	3.32	27.12
71	2.42	3.17	2.75	1.71	2.87	5.88	4.00	4.08	1.00	.61	2.30	4.44	35.23
72	.47	1.08	3.35	1.69	2.18	1.44	3.51	4.85	2.60	2.03	1.14	3.83	28.17
73	1.02	.60	1.42	2.31	4.63	2.31	5.16	5.67	2.97	4.03	1.70	2.17	34.59
74	3.04	1.38	.64	2.97	2.61	3.15	5.17	2.03	2.18	1.43	1.42	1.04	27.06
75	2.14	1.26	2.26	1.70	4.45	3.23	7.17	5.76	1.97	.91	2.51	.93	34.29
76	1.73	2.24	4.44	1.33	2.43	2.82	2.03	2.54	1.30	2.14	.79	.61	24.40
77	.72	2.19	2.49	2.15	1.85	1.39	3.38	4.75	4.01	1.22	2.33	2.20	28.75
78	3.31	.60	1.07	1.18	2.69	1.13	2.96	2.65	6.09	1.26	1.55	2.26	26.75
79	1.79	1.06	2.13	3.02	2.50	2.75	4.54	2.14	.29	2.58	1.94	2.09	26.63
80	.95	.47	1.22	4.15	1.87	3.34	2.11	3.29	2.51	.99	1.03	2.19	24.12
81	.46	1.93	1.01	3.41	1.14	2.11	1.50	2.20	2.38	2.98	1.12	1.17	21.41
82	2.06	.12	2.33	1.62	1.68	3.37	1.65	3.07	3.61	1.45	2.73	2.81	26.50
83	1.80	1.48	2.82	2.70	8.29	1.76	2.48	2.62	3.50	3.90	1.74	1.92	35.01
84	.89	.81	2.22	2.89	1.89	2.63	2.35	5.92	3.76	2.79	2.01	2.22	30.63
85	1.71	2.77	2.77	2.63	2.70	1.00	3.80	4.74	3.07	2.80	3.24	2.60	33.83
86	1.04	1.06	2.30	1.86	2.41	3.36	5.28	1.83	7.12	2.83	.61	.95	30.65
87	.94	.97	.94	1.20									
MEAN	1.628	1.351	2.014	2.249	2.926	3.105	3.062	3.329	3.220	2.078	2.127	2.045	29.164
S.D.	.843	.319	.922	.825	1.548	1.819	1.560	1.784	1.692	1.087	1.255	.701	3.992
TOTAL OBS	868	791	868	640	837	810	837	837	840	868	840	868	10104

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL  
FROM SUMMARY OF DAY DATA

AMOUNTS IN INCHES												PERIOD OF RECORD: 59-87				
MONTH	NONE	TRACE	0-1	0-5	1-5	2-5	3-5	4-5	5-5	10-5	15-5	25-5	OVER	% DAYS	TOTAL	MONTHLY AMOUNTS
																MEAN GREATEST LEAST
JAN	17.4	29.1	19.4	17.4	8.4	3.9	1.7	1.3	1.2	.1	.1			53.5	868	22.2 43.5 5.1
FEB	29.0	30.5	18.7	14.8	3.9	3.5	1.5	.8	1.1	.1				44.5	791	15.4 33.4 3.6
MAR	48.8	20.7	11.6	10.1	3.7	2.1	.9	.7	.9	.2	.1			30.4	868	13.6 35.8 3.4
APR	76.0	12.7	5.1	2.4	1.9	1.0	.4	.6						11.3	840	4.2 12.3 TRACE
MAY	95.2	3.7	.6	.2	.1		.1							.1	837	.3 3.7 .0
JUN	100.0														810	.0 .0 .0
JUL	100.0														837	.0 .0 .0
AGO	100.0														837	.0 .0 .0
SEP	99.6	.6													840	TRACE TRACE .0
OCT	88.2	9.0	1.5	.9	.3									2.8	868	.6 4.3 .0
NOV	54.0	26.7	7.1	6.7	1.2	2.1	1.1	.7	.1	.7				19.3	840	6.4 30.5 .3
DEC	23.0	26.5	19.0	16.1	7.8	3.2	1.6	1.6	.9	.1				50.5	868	20.7 46.3 4.7
ANN	68.9	13.3	6.9	5.7	2.3	1.3	.6	.5	.3	.1	.0			17.8	10104	85.4

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

EXTREME VALUES OF SNOWFALL  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	24 HOUR AMOUNTS IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59													
60	6.1	6.4	2.3	.3	.0	.0	.0	.0	.0	.2	4.7	3.7	
61	1.1	3.4	8.5	1.3	.8	.0	.0	.0	.0	.7	1.3	4.2	6.4
62	8.5	7.8	8.3	2.4	TRACE	.0	.0	.0	.0	.0	1.4	2.3	8.5
63	7.1	4.1	9.1	2.9	TRACE	.0	.0	.0	.0	.0	4.1	7.4	8.5
64	5.0	1.0	7.0	3.3	.0	.0	.0	.0	.0	1.0	2.8	2.4	9.1
65	8.7	8.1	5.7	4.6	.0	.0	.0	.0	TRACE	1.0	2.3	2.7	6.7
66	7.8	2.3	2.2	1.6	.3	.0	.0	.0	.0	TRACE	15.0	3.2	15.0
67	11.2	8.4	6.7	.6	TRACE	.0	.0	.0	.0	.2	6.4	2.7	11.2
68	3.6	2.9	4.3	.4	TRACE	.0	.0	.0	.0	1.5	2.9	5.1	9.1
69	7.7	3.5	3.0	TRACE	TRACE	.0	.0	.0	.0	2.4	3.6	5.4	7.7
70	4.2	1.6	10.0	4.1	.2	.0	.0	.0	.0	TRACE	6.9	6.4	10.0
71	10.3	4.9	12.1	2.0	TRACE	.0	.0	.0	.0	.0	4.7	6.1	12.1
72	1.7	4.6	5.2	1.5	.0	.0	.0	.0	.0	.2	1.7	6.3	6.3
73	2.9	2.2	8.0	5.7	TRACE	.0	.0	.0	.0	.0	3.0	5.7	8.0
74	2.6	10.1	2.5	1.4	3.7	.0	.0	.0	TRACE	.3	3.7	3.5	10.1
75	7.9	2.7	3.9	1.0	.0	.0	.0	.0	.0	TRACE	5.1	5.6	
76	4.1	4.0	9.5	3.2	.1	.0	.0	.0	.0	1.2	4.3	2.4	5.5
77	5.6	3.1	1.2	2.8	.0	.0	.0	.0	.0	TRACE	6.0	7.0	7.0
78	16.3	7.9	4.0	.1	TRACE	.0	.0	.0	.0	TRACE	2.7	6.2	16.3
79	8.5	3.6	2.6	4.3	1.8	.0	.0	.0	.0	.2	3.0	5.5	8.5
80	3.5	2.5	4.1	5.6	.0	.0	.0	.0	.0	1.3	3.8	11.9	11.9
81	3.0	11.2	3.0	TRACE	.0	.0	.0	.0	.0	.2	3.8	5.6	11.2
82	7.4	.9	5.7	1.5	.0	.0	.0	.0	.0	.2	3.2	1.5	7.4
83	3.8	5.1	10.8	5.0	.0	.0	.0	.0	.0	TRACE	3.2	3.9	10.8
84	3.4	4.1	2.4	3.9	.3	.0	.0	.0	TRACE	.0	2.4	3.2	4.1
85	0.0	0.5	17.3	1.5	.0	.0	.0	.0	.0	TRACE	4.8	5.2	17.3
86	3.5	7.5	4.0	2.0	TRACE	.0	.0	.0	.0	.1	3.1	2.6	7.5
87	4.2	6.8	7.2	4.5									
MEAN	5.78	4.94	5.77	2.43	.27	.03	.00	.00	TRACE	.41	3.94	5.19	9.29
S.D.	3.263	2.657	3.699	1.754	.781	.000	.600	.000	.000	.608	2.647	2.559	3.206
TOTAL OBS	968	791	968	840	837	810	837	837	840	868	840	868	10104

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

MONTHLY SNOWFALL  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPHA MI

PERIOD OF RECORD: 59-87

YEAR	TOTAL MONTHLY SNOWFALL IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59													
60	19.0	19.5	8.4	1.0	.0	.0	.0	.0	.0	.2	17.0	14.3	
61	5.1	9.2	10.0	3.2	1.5	.0	.0	.0	.0	.9	2.1	14.7	65.6
62	20.2	37.1	8.4	3.0	TRACE	.0	.0	.0	.0	1.1	5.4	21.8	52.1
63	16.8	11.4	18.1	5.3	TRACE	.0	.0	.0	.0	.0	.3	25.5	77.4
64	6.1	5.7	15.2	3.5	.0	.0	.0	.0	.0	1.0	7.3	16.2	60.7
65	32.5	20.8	11.5	6.6	.0	.0	.0	.0	TRACE	1.0	5.2	6.5	84.3
66	21.1	5.3	9.9	4.8	.3	.0	.0	.0	TRACE	30.5	15.2	87.1	
67	32.6	33.4	10.4	.6	TRACE	.0	.0	.0	.0	.2	10.9	5.1	97.2
68	13.6	15.2	5.6	.5	TRACE	.0	.0	.0	.0	1.5	14.3	35.2	85.9
69	25.7	9.1	7.7	TRACE	TRACE	.0	.0	.0	.0	4.3	5.8	25.4	77.0
70	28.6	5.7	20.0	4.2	.2	.0	.0	.0	TRACE	11.6	46.3	116.8	
71	43.2	25.0	35.8	4.2	TRACE	.0	.0	.0	.0	.0	12.0	16.3	138.5
72	9.6	15.9	27.3	3.3	.0	.0	.0	.0	.0	.2	4.7	42.5	102.5
73	9.6	8.3	9.6	8.8	TRACE	.0	.0	.0	.0	.0	4.2	24.2	64.7
74	12.9	17.4	4.8	2.8	3.7	.0	.0	.0	TRACE	.3	7.7	12.6	65.2
75	14.0	13.0	17.7	1.1	.0	.0	.0	.0	TRACE	10.9	16.0	72.7	
76	34.3	19.0	10.9	3.5	.1	.0	.0	.0	.0	2.5	8.0	13.8	99.1
77	17.7	11.3	3.4	4.6	.0	.0	.0	.0	TRACE	19.5	26.1	82.2	
78	47.5	16.8	8.5	.1	TRACE	.0	.0	.0	.0	7.8	29.1	105.6	
79	27.3	13.5	4.8	9.1	2.2	.0	.0	.0	.0	.2	6.2	21.0	79.3
80	12.0	11.3	15.7	12.3	.0	.0	.0	.0	.0	1.5	4.6	32.2	90.1
81	14.0	27.5	9.3	TRACE	.0	.0	.0	.0	.0	.3	3.9	16.0	66.0
82	39.8	3.6	20.1	3.6	.0	.0	.0	.0	.0	.2	4.7	4.7	76.7
83	22.4	19.3	16.7	7.1	.0	.0	.0	.0	TRACE	5.5	22.1	91.7	
84	21.2	8.8	9.2	7.4	.3	.0	.0	.0	TRACE	.0	4.5	15.3	66.7
85	40.6	30.7	26.8	4.8	.0	.0	.0	.0	TRACE	15.4	27.7	146.0	
86	17.2	16.0	12.6	3.6	TRACE	.0	.0	.0	.0	.1	4.1	11.1	64.7
87	12.3	17.2	3.5	7.9									
MEAN	22.16	15.38	13.59	4.16	.31	.00	.00	.00	TRACE	.55	8.44	20.67	85.74
S.D.	11.197	7.778	7.776	3.088	.843	.000	.000	.000	.000	.764	6.399	10.135	22.602
TOTAL OBS	869	791	868	840	837	810	837	837	840	868	840	868	10104

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 72639G STATION NAME: ALFENA MI

PERIOD OF RECORD: 59-87

MONTH	NONE	TRACE	1	2	3	4	7	13	25	37	49	61	OVER	% DAYS	TOTAL	MONTHLY AMOUNTS	
														MEAS	WITH	OBS	
<hr/>																	
JAN	1.3	2.9	4.0	5.5	7.4	16.6	30.3	29.6	2.4						95.9	868	
FEB	1.1	6.3	3.4	3.5	3.8	14.5	29.5	31.1	6.4	.3					92.5	791	
MAR	15.9	12.9	7.3	4.6	3.7	11.2	23.0	19.5	2.0						71.2	868	
APR	71.8	13.8	4.6	3.1	1.8	4.2	.7								14.4	840	
MAY	99.0	.5	.2	.2											.5	837	
JUN	100.0															810	
JUL	100.0															837	
AUG	100.0															837	
SEP	100.0															840	
OCT	96.7	2.8	.5	.1											.6	868	
NOV	62.9	18.7	6.1	3.3	3.5	3.2	2.1	.2							18.5	840	
DEC	8.5	15.4	16.9	13.0	10.7	19.1	17.9	4.4							76.0	868	
AN	63.1	6.1	3.1	2.8	2.6	5.7	8.6	7.1	.9	.0					30.8	10104	

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	DAILY SNOW DEPTH IN INCHES												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59										0	TRACE	8	6
60		13	16	16	2	0	0	0	0	1	1	6	18
61		7	6	11	1	TRACE	0	0	0	0	TRACE	3	11
62		17	26	28	1	0	0	0	0	0	TRACE	4	10
63		16	16	19	2	1	0	0	0	0	TRACE	9	19
64		9	2	6	4	0	0	0	0	1	4	4	9
65		13	15	13	6	0	0	0	0	0	TRACE	2	3
66		12	10	3	1	0	0	0	0	0	0	17	17
67		17	33	27	1	0	0	0	0	0	TRACE	7	30
68		6	7	8	TRACE	0	0	0	0	0	TRACE	6	20
69		27	10	5	1	0	0	0	0	0	2	3	9
70		15	13	10	5	0	0	0	0	0	0	6	18
71		28	26	26	7	0	0	0	0	0	0	4	11
72		10	10	15	6	0	0	0	0	0	TRACE	1	17
73		10	6	8	7	0	0	0	0	0	0	3	11
74		9	12	6	2	2	0	0	0	0	TRACE	2	6
75		7	10	12	5	0	0	0	0	0	0	7	10
76		24	22	19	2	TRACE	0	0	0	0	1	3	6
77		18	15	9	0	0	0	0	0	0	0	14	16
78		29	29	27	7	0	0	0	0	0	0	3	12
79		25	26	18	3	2	0	0	0	0	0	2	7
80		4	7	9	6	0	0	0	0	0	TRACE	TRACE	12
81		18	25	3	0	0	0	0	0	0	4	3	25
82		29	19	20	2	0	0	0	0	0	TRACE	3	1
83		8	12	12	4	0	0	0	0	0	0	4	12
84		20	25	3	3	TRACE	0	0	0	0	0	2	5
85		19	37	28	2	0	0	0	0	0	0	7	14
86		21	17	20	1	0	0	0	0	0	0	3	6
87		10	17	9	7								21
MEAN	15.8	16.6	13.7	3.3	.2	.0	.0	.0	.0	.2	4.3	5.1	20.3
S.D.	7.382	8.908	7.717	2.335	.557	.003	.000	.000	.000	.475	3.876	5.231	7.450
TOTAL OBS	868	791	868	840	837	610	837	837	840	868	840	668	10104

NOTE \* (BASED ON LESS THAN FULL MONTHS)

PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTTT	CCCCCC
PPPPPPPPP	AAAAAAA	RRRRRRRR	TTTTTTTTTT	CCCCCC
PP PP	AA AA	RR RR	TT	CC CC
PP PP	AA AA	RR RR	TT	CC
PPPPPPPPPP	AA AA	RRRRRRRR	TT	CC
PPPPPPPPP	AAABABABAB	RRRRRRRR	TT	CC
PP	AAAAAAAAA	RR RR	TT	CC
PP	AA AA	RR RR	TT	CC CC
PP	AA AA	RR RR	TT	CCCCCCC
PP	AA AA	RR RR	TT	CCCCCC

SURFACE WIND SUMMARIES

EXTREME VALUES OF PEAK WINDS

DATA DERIVED FROM SUMMARY OF DAY DATA.

VALUES PRESENTED BY INDIVIDUAL MONTH AND YEAR WITH ALL YEARS COMBINED.

SPEEDS PRESENTED IN KNOTS.

DIRECTIONS PRESENTED IN 16 COMPASS POINTS FROM BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968.  
COMMENCING JULY 1968 DIRECTIONS PRESENTED IN TENS OF DEGREES.

AN ASTERISK "\*" IN THE TABLES INDICATES THAT THE VALUE IS BASED ON AN INCOMPLETE MONTH OF THREE OR MORE MISSING DAYS.

MEANS AND STANDARD DEVIATIONS PRESENTED DO NOT INCLUDE INCOMPLETE MONTHS. FOUR OR MORE MONTHS ARE NEEDED TO COMPUTE THESE STATISTICS AND INCOMPLETE MONTHS ARE NOT INCLUDED.

TABLES ALSO INCLUDE THE OBSERVATION COUNTS.

BIVARIATE PERCENTAGE FREQUENCY TABULATIONS OF SURFACE WINDS

DATA DERIVED FROM HOURLY DATA.

PRESNTED ARE THE PERCENTAGE FREQUENCY OF WIND DIRECTION TO 16 COMPASS POINTS, CALM AND VARIABLE VERSUS WIND SPEED IN KNOTS IN INCREMENTS OF BEAUFORT CLASSIFICATIONS.

PERCENTAGES ARE SHOWN BY BOTH DIRECTIONS AND SPEED, AND IN ADDITION THE MEAN WIND SPEED IS GIVEN FOR EACH DIRECTION.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED)..

A SEPARATE ANNUAL TABLE PRESENTS THE SAME BIVARIATE DISTRIBUTIONS WITH IMPOSED CEILING/VISIBILITY LIMITATIONS: WHEN VISIBILITY IS EQUAL TO OR GREATER THAN 1/2 MILES, THE CEILINGS ARE 200 TO 1400 FEET AND/OR WHEN THE CEILING IS EQUAL TO OR GREATER THAN 200 FEET, THE VISIBILITIES ARE 1/2 THROUGH 2 1/2 MILES.

A PERCENTAGE VALUE OF ".0" IN THESE TABLES INDICATES ONE OR MORE OCCURRENCES AMOUNTING TO LESS THAN .05%.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAR

EXTREME VALUES OF SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 74-87

YEAR	DAILY PEAK GUSTS IN KNOTS												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JULY	ALG	SEPI	OCT	NOV	DEC	
74											NW *30	N	30
75	SW 45	NE 34	E 36	SW 42	NW 35	W 27	W 39	NW 31	NW 27	SW 28	SW 49	NW 33	SW 49
76	SE 39	NW 35	SW 37	NW 27	NW 32	NW 30	S 43	W 28	W 34	NW 36	NW 25	NW 32	SW 43
77	NW 37	W 32	SW 40	NW 35	SW 39	W 40	SW 36	NW 37	NW 36	NW 38	SW 35	W 35	SW 40
78	N 45	NE 26	NW 38	NW 39	SW 38	NW 27	SW 33	NW 28	W 31	SW 30	SW 36	NW 34	N 45
79	NW 29	W 39	NW 33	W 52	NW 35	SE 30	NW 28	NW 29	NW 26	SE 34	SW 41	NW 35	W 52
80	SW 46	NW 31	NW 35	N 39	NW 30	NW 30	NW 26	NW 23	SW 36	NW 34	NW 31	NW 37	SW 46
81	NW 52	NW 29	N 31	SW 42	NW 28	NW 28	N 26	N 23	SW 35	W 36	W 31	NW 28	SW 42
82	NW 35	W 32	SW 47	W 43	S 38	NW 27	S 46	W 27	NW 27	W 35	NW 33	NW 34	SW 47
83	S 27	NE 26	N 30	SE 33	E 30	W 33	N 25	N 37	W 32	NW 34	NW 30	SE 29	N 37
84	NW 38	N 34	NW 34	W 45	N 27	SW 35	NW 29	SW 34	NW 28	NW 30	W 29	SW 45	W 45
85	NW 29	NW 31	SE 41	NW 37	SW 38	SE 38	NW 29	E 25	S 32	S 33	SW 43	NW 30	SW 43
86	NW 35	E 27	NW 36	NW 34	W 36	N 32	NW 31	NW 32	NW 29	W 33	SW 35	NW 28	NW 36
87	NW 30	N 47	W 33	NW 39									
MEAN	35.21	32.21	36.21	39.01	33.41	31.4	32.81	29.51	31.11	33.41	34.81	33.11	43.8
S.D.	6.635	5.464	4.580	6.218	4.379	4.358	6.824	4.834	3.655	2.875	6.699	4.609	4.654
TOTAL OBS	403	366	403	390	372	360	371	372	360	371	374	403	4545

NOTES \* (BASED ON LESS THAN FULL MONTHS)

S (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639D STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-60		
N	.3	.5	1.5	2.0	.2							4.6	10.1
NNE		.5	.3	.1								1.0	7.3
NE	.2	.4	.8	.6	.2							2.3	9.9
ENE		.3	.2	.4								1.1	9.7
E		.1	.4	.5	.1							1.6	10.4
ESE	.2	.2	.9	.5	.1	.1						2.0	10.1
SE	.4	.2	1.0	.2	.2							2.0	8.7
SSW	1.3	1.5	.9	.3								3.7	6.2
S	1.3	3.4	4.4	1.6	.2							11.0	7.5
SSW	.6	2.6	2.8	.6								6.7	7.0
SW	1.1	3.0	3.5	1.1								8.7	7.0
WSW	.5	4.1	4.6	.5								9.8	6.8
W	1.6	4.4	5.6	1.6	.4							13.7	7.5
WNW	.1	3.2	5.7	2.6	.2	.1						11.9	8.7
NW	.5	1.2	2.4	2.4	.4							6.9	9.7
NNW	.3	.3	1.0	1.3	.2							3.1	10.0
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	10.0	/
TOTALS	8.3	26.1	36.5	16.6	2.4	.2						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.8	.8	2.2	2.4	.1						6.1	9.3
NNE	.2	.1	.2	.5	.1	.2					1.4	12.0
NE	.1	.3	1.0	1.4	.1						2.9	10.4
ENE	.2	.1	.3	.1							.8	7.1
E		.3	.9	.3							1.5	8.3
ESE	.1	.1	1.0	.4	.2						1.8	9.9
SE	.1	.6	.3	.2	.1						1.4	8.0
SSE	.3	1.0	.0	.5							3.5	6.7
S	1.0	4.2	4.6	.8	.3						10.9	7.2
SSW	.0	3.0	2.4	.2							6.3	6.2
SW	1.2	3.3	2.4	1.2	.1						8.2	6.8
WSW	.6	5.2	2.7	1.1							9.6	6.5
W	.6	6.5	5.2	1.6	.1						14.0	7.1
NNW	.6	2.0	4.7	3.2	.5						12.0	9.0
NW	.1	.6	2.0	2.4	.5						5.7	10.9
NNW	.1	.5	1.1	1.4	.1						3.2	9.8
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	10.6	/
TOTALS	6.9	30.4	31.7	17.7	2.4	.2					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS												TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56			
N	.4	1.1	1.3	1.1									3.9	7.9
NNNE		.3	1.1	.9	.1								2.7	12.2
NE	.2	.1	.5	1.0									1.8	10.2
ENE	.4	.1	.8	.2	.2								1.7	9.3
E	.1	.2	1.0	.3									1.6	8.5
ESE	.3	.4	.2	.1									1.1	5.9
SE	.6	1.1	1.2	.5	.1								3.5	7.2
SSE	.2	1.6	1.1	.3									3.2	7.0
S	1.3	4.0	4.3	.9	.2								10.6	6.9
SSW	.8	2.2	3.2	.2									6.5	6.5
SW	.8	4.3	3.4	.8	.2								9.5	7.0
WSW	1.2	4.3	2.7	.6	.1								8.9	6.4
W	1.2	4.9	3.2	1.7	.1								11.2	7.1
WNW	.5	1.7	4.8	3.8	.2	.1							11.2	9.6
NW	.1	1.4	2.9	3.5	.3								8.3	10.2
NNW	.5	.4	1.6	1.5	.5								4.6	10.0
VARIABLE														
CALM	/	/	/	/	/	/	/	/	/	/	/		9.7	/
TOTALS	8.7	26.7	33.4	17.4	2.2	.1	.3						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 938

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	1.2	2.2	1.6	.1	.1	.2				5.7	10.3
NNE	.1	.2	.4	.9	.1						1.4	10.1
NE	.1	.6	1.1	1.1	.1						2.9	10.0
FNE		.1	.3	.6							1.2	11.1
E		.3	.4	1.0							1.7	10.3
ESE	.1	.3	.6	.2							1.4	8.6
SE	.3	.6	1.4	.5							2.9	7.5
SSE	.3	1.4	1.7	1.2							4.6	8.0
S	.6	1.9	4.4	2.2	.1						9.2	8.6
SSW	.4	1.8	2.7	1.2							6.1	7.7
SW	.2	2.7	4.0	.9	.2	.1					7.6	8.1
WSW	.4	3.5	3.5	1.4	.2						9.1	7.7
N	.6	4.4	3.7	2.7	.2						11.7	7.9
VNN	.9	1.4	5.6	3.6	.1	.2					11.9	9.5
NN	.2	1.7	3.2	4.1	1.4						10.6	11.0
NNW	.2	.9	1.7	2.0	.6						5.5	10.9
VARIABLE												
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.8	//////
TOTALS	4.8	22.9	37.0	25.7	3.2	.4	.2				100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 72-87  
MONTH: JAN HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.5	2.4	2.9	.3						7.5	9.9
NNE	.4	.7	1.0	1.4							3.0	9.4
NE		.7	1.4	1.0							2.6	10.0
F NE	.1	.2	.9	.6	.1						1.9	10.2
E	.2	.2	.6	.3							1.4	8.1
FE	.1	.4	.5	1.4	.1						2.6	10.3
SE	.1	.5	.9	1.1							2.6	9.5
SSE	.8	.8	1.0	2.4	.2						4.9	9.8
S	.7	1.2	5.1	2.9	.4	.1					10.0	9.7
SSW	.1	.8	2.0	1.3							4.2	8.9
SW		.9	3.7	1.8	.2						6.6	9.6
WSW	.2	1.0	4.1	3.3	.9	.1					9.5	10.6
W	.1	1.7	3.9	4.1	.3	.1					10.2	10.1
WNW		.4	3.8	6.6	1.0						11.7	11.9
NW		.5	2.7	7.2	1.7						12.2	12.9
NNW	.1	1.1	1.6	3.4	1.3						7.6	12.0
VARIABLE												
CALM	//										1.6	////
TOTALS	2.9	11.4	35.4	41.7	6.5	.3	.2				100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 73-87  
MONTH: JAN HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	1.7	2.8	2.5	.3						8.4	9.5
NNE		.6	1.1	1.7	.1						3.5	10.0
NE	.4	.6	.5	.3							1.9	10.3
ENE	.1	.7	.2	.4							1.1	8.6
E	.2	.6	.8	.2							1.6	7.2
EE		1.4	1.2	.2							3.3	8.3
SE	.1	.6	.9	2.3							3.9	10.7
SSE	.2	.5	1.9	2.0							5.1	9.5
S	.3	2.3	2.4	2.8	.1						8.9	9.0
SSW	.2	1.2	1.1	.6							3.1	7.4
SW	.2	1.5	1.9	1.5	.3	.1					5.4	8.9
WSW	.1	1.9	2.6	2.7	.5	.1					7.8	10.2
-	.3	1.7	5.1	5.3	.2						12.2	10.2
NNW		1.7	6.0	6.9	.6						14.8	10.9
NW	.8	3.4	7.0	1.0							12.2	11.7
NNW	.6	2.2	2.2	.6	.3						5.9	11.9
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.6	/
TOTALS	1.9	17.4	36.1	39.4	4.0	.5					100.0	10.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.8	1.0	1.2	1.8	.2						4.9	9.0
NNC	.3	1.0	.9	.9							2.9	7.6
NE	.1	.2	.6	.7							1.3	8.8
ENE	.3	.6	.3	.5							1.8	7.6
E	.2	.2	.3	.2							1.0	7.1
ESE	.6	1.2	.3	.6	.2						3.0	7.8
SE	.3	1.0	1.7	.9	.6						4.5	9.8
SSE	.3	1.9	2.2	1.4	.1						5.9	8.3
S	1.3	3.1	2.9	2.6							9.9	7.6
SSW	.9	1.5	1.1	.9							4.2	6.9
SW	.4	1.7	1.7	.4	.3						4.2	8.1
WSW	.4	2.4	3.3	1.4	.2						7.7	8.3
W	.6	4.2	5.3	2.8	.1						13.0	6.0
WNW	.3	3.2	6.0	5.1	.2						14.8	9.3
NW	.3	2.0	3.5	4.5	.4	.1					11.0	9.8
NNW	.2	1.3	.9	1.6	.2	.3					4.5	10.5
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	5.3	/
TOTALS	7.4	26.1	32.3	25.8	2.5	.6					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFLTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 7P-87  
MONTH: JAN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	.9	1.5	1.7	.3	.1					4.6	9.4
NNE	.1	.5	.5	1.2							2.4	10.0
NE		.7	.3	.2	.1						1.1	9.4
ENE	.1	.4	.8	.1							1.4	7.8
E	.1	.7	.1	.6							1.2	9.5
ESE	.5	.7	.3	1.0	.1	.1					2.6	9.0
SE		.8	1.7	.6	.2						3.3	6.9
SSE	.3	.6	1.8	1.2	.6						4.6	10.3
S	1.4	3.0	4.0	1.3							10.5	6.9
SSW	.4	1.0	2.2	.8							5.4	7.5
SW	.8	1.8	2.9	.2	.1						6.2	7.4
WSW	.6	4.4	3.2	1.5	.1						10.0	7.3
W	.6	4.0	6.0	1.2	.3						12.8	7.5
WNW	.2	3.7	6.0	3.7	.3						13.9	8.7
NW	.3	1.0	2.7	2.0	.9						7.7	10.7
NNW	.2	.6	.5	1.7	.2						3.3	10.4
VARIABLE												
CALM	//										8.9	//
TOTALS	6.5	26.1	34.7	20.2	3.3	.2					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.1	2.0	2.0	.2	.0	.0				5.7	9.5
NNE	.1	.5	.7	.9	.1	.0	.0				2.3	9.9
NE	.1	.7	.8	.3	.1						2.1	10.0
ENE	.2	.7	.5	.4	.0						1.4	9.0
E	.1	.7	.6	.5	.0						1.5	8.7
EESE	.3	.6	.6	.6	.1	.3					2.2	8.8
SE	.3	.7	1.1	.8	.2						3.0	9.0
SSE	.4	1.3	1.4	1.2	.1						4.4	8.4
S	.9	3.0	4.1	1.9	.2	.0					10.1	7.9
SSW	.5	1.9	2.2	.7							5.3	7.2
SW	.6	2.3	2.9	1.0	.2	.0					7.0	7.7
WSW	.5	3.3	3.4	1.1	.2	.1					9.1	7.9
W	.7	4.0	4.7	2.6	.2	.0					12.3	8.1
WNW	.3	2.2	5.3	4.4	.4	.1					12.8	9.7
NW	.2	1.2	2.9	4.2	.8	.3					9.3	11.0
NNW	.2	.7	1.3	1.9	.5	.1	.0				4.7	10.9
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	6.6	/
TOTALS	5.9	22.6	34.6	25.6	3.3	.3	.1				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFTAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/MAC

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	1.7	1.1	1.4	.1							4.1	9.1
NNE	.1	1.4	1.1	.5								3.1	7.0
NE	.1	1.2	.9	1.1								3.3	8.3
ENE	.1	.2	.7	.1								1.2	8.1
E	.4	1.7	1.1	.4								3.1	6.8
ESE	.1	1.7	1.2	.5								3.4	7.0
SE	.4	1.7	1.2	.2								3.3	6.5
SSL	1.4	2.4	1.4	.2								5.4	5.5
S	1.2	3.7	4.1	.5								9.5	6.6
SSW	.6	2.0	1.7	.6								4.8	6.7
SW	.4	2.7	1.5	.6								5.2	6.8
WSW	1.1	3.6	2.4	.4	.1							7.8	6.2
W	1.2	6.1	3.9	.6	.1							11.9	6.2
WNW	1.1	3.4	4.4	1.4								10.3	7.1
NW	.2	2.2	2.1	1.7								6.0	8.3
NNW	.4	1.7	.8	1.2	.2	.1						3.9	9.2
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	13.6	/
TOTALS	2.0	35.9	29.6	11.2	.6	.1						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.9	1.2	1.9	1.1	.2						5.3	8.2
NNE	.5	.7	.8	.7	.1						2.8	8.3
NE	.2	.6	1.4								2.2	7.5
ENE	.1	.6	1.4	.1							2.2	7.5
E	.2	1.1	1.3	.2							2.8	7.1
ESE	.2	.7	.9	.4							2.2	7.2
SE		1.7	1.5	.9							4.1	8.3
SSE	1.1	1.9	1.3	.2							4.5	5.7
S	.7	4.9	4.8	.4							10.8	6.5
SSW	.2	1.9	1.7	.2							4.0	6.7
SW	.5	2.4	1.1	.5							4.4	6.3
WSW	1.3	3.7	2.1								7.1	5.6
W	1.8	7.2	4.5	.2							13.7	5.6
WNW	.7	3.1	4.6	.9	.1						9.5	7.1
NW	1.3	1.7	1.5	1.8	.1	.1					6.5	8.1
NNW	.5	.8	2.0	1.5	.1						5.0	9.4
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	12.8	/
TOTALS	10.2	33.9	33.0	9.2	.7	.1					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.6	1.9	2.0	1.2	.1							5.9	8.6
NNE	.1	.8	1.4	.6								3.0	8.0
NE	.5	1.2	1.1	.2								3.0	6.6
ENE		.5	.8	.4								1.7	8.6
E		.7	1.4	.4								3.0	9.0
ESE	.1	.1	.9	.2								1.4	8.3
SE	.6	1.5	2.0	.6								4.7	7.2
SSE	.9	1.1	2.2	.4								4.6	6.9
S	1.2	4.1	4.4	.6								10.3	6.7
SSW	.8	2.1	2.5	.2								5.7	6.5
SW	.6	2.7	1.4	.2								5.0	6.1
WSW	.9	3.3	1.7	.5								6.4	6.0
W	1.5	6.1	3.5	.5								11.7	6.0
NNW	.6	3.5	4.1	1.3	.1							9.7	7.5
NW	.7	1.3	1.9	1.8	.2							5.9	8.7
NNW	.5	.2	2.5	1.1	.1							5.1	9.1
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	13.1	/
TOTALS	9.7	31.9	33.9	10.5	.6							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87  
MONTH: FEB HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-14	15-18	19-22	23-27	28-33	34-40	41-47	48-55		
N	.9	1.5	4.0	3.3	.1							10.0	9.2
NNE	.5	.4	1.9	1.3	.2							4.8	9.2
NE	.2	.2	.9	1.4								2.8	9.7
ENE	.5	.4	.5	.8								2.1	8.8
E		.5	2.4	1.3								4.1	9.4
ESE	.4	.8	2.0	.7								3.9	7.9
SE	.4	.8	.7	1.2								3.1	8.4
SSE	.7	.9	1.2	1.3								4.0	8.3
S	.5	2.0	5.9	2.7								11.1	8.6
SSW		1.2	2.5	.7								4.4	8.1
SW	.9	1.5	3.0	.9	.1							5.9	8.0
WSW	.6	3.5	3.2	.8								8.2	7.1
W	1.3	2.1	3.8	1.4								8.6	7.5
WNW	.1	1.5	3.5	2.7	.2							8.2	9.5
NW	.2	1.2	3.2	1.9	.2							6.7	9.5
NNW	.9	.2	1.5	2.6	.1	.2						5.7	10.9
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	6.3	/
TOTALS	7.6	19.4	40.2	25.2	1.1	.2	.1					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATM WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N		1.5	4.8	5.2	.6				.2		12.4	10.8
NNE	.1	.9	2.4	1.3							4.7	8.7
NE	.1	.1	1.2	.6							2.0	9.7
ENE	.1	.4	.9	1.2							2.6	10.0
E	.1	.4	1.6	1.8	.1						4.3	10.4
ESE		.6	2.7	2.5							5.8	10.0
SE	.1	.7	2.5	.9							4.3	8.9
SSE	.2	.7	2.1	1.3							4.4	9.1
S	.1	1.6	5.2	3.4							10.5	9.1
SSW		1.7	1.8	1.5							4.6	8.8
SW	.1	1.3	1.5	2.5							5.4	9.2
WSW		1.2	3.9	2.8							7.9	9.7
W	.2	.9	2.4	3.3	.1						7.0	9.8
WNW	.2	.9	2.2	4.3	.9						8.6	11.2
NW	.2	.2	2.5	3.7	.6						7.2	11.8
NNW	.2	1.2	1.7	3.7	.2				.1		7.1	11.0
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	1.2	/
TOTALS	2.0	14.2	39.7	40.0	2.6				.4		100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.2	5.3	4.6	.4	.1						11.6	10.4
NNE	.5	1.7	1.0	.6								4.1	7.5
NE		1.1	1.1	.7								2.8	8.2
ENE	.1	.8	1.1	.5								2.5	8.0
E	.1	1.9	2.7	2.2	.1							7.0	9.0
FSE	.1	1.2	4.1	1.9								7.3	8.9
SE		.4	2.0	2.7								5.1	10.5
SSE		1.1	1.8	1.1	.1							4.0	8.9
S	.4	1.3	3.8	2.5								7.9	8.9
SSW		.4	1.1	1.0								3.2	10.3
SW		.4	2.0	1.3								3.7	9.8
WSW	.1	.9	3.7	1.7	.1							6.5	9.2
W	.1	.7	3.4	2.7	.4							7.3	10.3
WNW	.1	.7	3.4	4.4	.5							9.1	10.8
NW		.7	3.7	4.6	.6							9.6	11.0
NNW	.1	.5	2.7	3.0	.6	.1						7.0	11.0
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	1.3	/
TOTALS	1.7	14.3	43.6	36.2	2.7	.2						100.0	9.7

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFMETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS/LIST: 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	1.8	2.4	.9	.4	.1					6.1	8.5
NNE	.1	.8	.8								1.8	6.3
NE	.5	1.3	.7	.1							2.6	5.7
ENE	.2	1.4	.9	1.1							3.7	7.8
E	.5	1.9	1.9	.4	.1						4.7	7.2
ESE	.4	3.2	2.6	.7							6.9	6.8
SE	.5	1.8	3.0	1.4							6.6	7.9
SSC	.7	1.0	1.4	.4							4.4	6.3
S	.2	2.7	5.2	2.0							10.2	8.2
SSW	.4	.7	.8	1.2	.1						3.2	9.2
SW	.4	.2	1.4	.5	.1						2.6	8.3
WSW	.7	2.2	2.0	.1							5.1	6.1
W	.7	3.9	4.4	1.3							10.3	7.2
WNW	.7	2.8	5.1	3.1		.1					11.8	8.6
NW	.2	3.0	3.3	1.3	.2	.1					8.2	8.2
NNW	.5	1.1	1.9	2.0	.4						5.8	9.6
VARIABLE												
CALM	//										6.1	//
TOTALS	7.2	30.7	37.8	16.4	1.3	.4					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 74-87  
MONTH: FEB HOURS(LST): 2100-2300

DIRECTION (IN DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-15	16-20	21-25	26-30	31-40	41-47	48-55		
N	.4	1.7	1.7	1.3	.2	.1					5.3	9.1
NNE	.5	.7	.7	.6							2.5	7.2
NE	.1	.8	.7	.7							2.4	8.0
ENE	.5	1.1	.2								1.8	4.7
E	.2	1.1	1.4	.2	.2						3.2	7.7
ESE	.6	1.1	2.6	.5							4.7	7.2
SE	.1	2.5	1.7	.5							4.7	6.8
SSE	.9	1.7	1.3	.4							4.3	6.0
S	.9	3.7	3.8	1.5							9.9	7.4
SSW	.2	1.0	1.4	1.5							4.8	8.0
SW	.5	1.0	1.8	.7							4.4	7.9
WSW	.9	2.6	1.5	.6							5.7	6.4
W	1.2	7.1	7.0	.9							13.1	6.4
NNW	.4	4.0	5.1	2.2							11.7	7.9
NW	.5	1.3	3.1	1.2							6.0	8.0
NNW	.6	1.7	.6	.6	.5						3.5	8.3
VARIABLE												
CALM	//										11.9	////
TOTALS	8.5	33.8	31.4	13.2	.9	.1					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS: 946

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.5	1.7	2.9	2.4	.5	.2	.1				7.6	9.5
NE	.3	1.0	1.4	.7	.0						3.4	8.0
NE	.2	.6	1.0	.6							2.6	7.9
ENL	.2	.7	.8	.5							2.2	8.0
L	.2	1.1	1.8	.9	.1						4.0	8.5
ESE	.2	1.2	2.1	.9							4.5	8.0
SE	.3	1.0	1.8	1.1							4.5	8.1
SSE	.8	1.4	1.6	.7	.0						4.4	7.0
S	.7	3.0	4.7	1.7							10.0	7.7
SSW	.3	1.4	1.7	.9	.0						4.3	7.9
SW	.3	1.0	1.7	.9	.0						4.6	7.7
WSW	.7	2.7	2.6	.9	.0						6.8	7.1
W	1.0	4.7	3.7	1.4	.1						10.5	7.1
WNW	.5	2.6	4.1	2.5	.2	.0					9.9	8.6
NN	.4	1.4	2.7	2.2	.3	.0					7.0	9.3
NNW	.5	.9	1.7	2.0	.2	.1	.0				5.4	9.9
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	8.3	/
TOTALS	7.0	26.8	36.2	20.2	1.3	.1	.1				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS: 6768

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSLS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	1.5	1.1	3.0	.4						6.7	10.3
NNE	.6	.5	.5	.6							2.5	7.3
NE	.1	.4	.5	1.1							2.2	9.2
ENE	.4	1.0	.9	1.0							3.2	8.3
E	.3	1.6	1.4	1.4	.1						4.9	8.5
ESE	.1	1.2	2.6	.6							4.5	7.9
SE	.5	1.4	1.5	1.2							4.6	7.8
SSE	.1	2.3	1.2	.8							4.5	6.9
S	1.0	3.4	2.0	.8	.1						7.3	6.6
SSW	.6	1.6	1.4	.6							4.1	6.6
SW	.4	2.3	1.3	1.0							4.9	6.8
WSW	1.3	3.1	1.7	.8							6.9	6.4
W	1.4	4.8	5.6	1.0							12.8	6.9
WNW	1.7	2.2	4.8	1.9	.2						10.9	7.9
NW	.3	1.7	2.0	1.7	.3						6.1	9.2
NNW	.3	1.0	1.1	1.0	.1						3.4	8.8
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	10.5	/
TOTALS	10.2	30.0	29.7	18.3	1.3						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTHS: MAR HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	2.2	.5	2.0	.2	.2					6.9	9.3
NNE	.3	1.1	.9	.6	.2	.1					3.2	8.5
NE	.2	.6	1.2	.8							2.8	8.3
ENE	.3	1.1	1.0	.6							3.0	7.7
E	.3	.2	1.2	1.1	.3						3.3	10.3
ESE		1.1	1.5	.5	.1						3.4	8.9
SE	.3	1.8	.9	1.1							4.1	7.5
SSE	1.1	2.4	1.1	.6							5.2	6.1
S	1.5	3.7	2.5	.9	.1						8.6	6.6
SSW	.3	1.9	1.3								3.5	5.9
SW	1.1	1.8	2.3	.7							5.4	6.2
WSW	1.3	2.0	2.7	.4							6.5	6.3
W	1.3	5.2	4.5	.5	.1						11.6	6.5
NNW	.4	3.4	3.1	2.2	.2	.1					10.5	8.3
NW	.3	1.2	1.5	2.7	.2						5.9	10.2
NNW	.8	.6	.9	1.7							4.1	8.9
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	11.9	/
TOTALS	10.5	30.4	27.1	18.1	1.5	.4					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.5	2.4	1.2	2.0	.1	.1					6.1	8.9
NNE	.4	1.7	1.0	1.1	.2	.2					4.2	9.0
NE	.4	1.7	1.2	.5							3.4	7.0
ENE		.8	.9	.8							2.4	8.5
E	.7	.6	.6	1.9	.3						3.9	10.4
ESE	.2	1.1	1.3	.8	.2						3.5	8.6
SE	.4	2.3	1.4	1.1							5.2	7.4
SSE	1.0	2.3	.5	1.0							4.7	6.3
S	1.4	3.0	2.3	.8							7.8	6.2
SSW	.6	2.4	1.6	.5							4.9	6.1
SW	.6	2.0	2.2								4.8	6.1
WSW	.5	2.2	2.3	.5							5.5	6.7
W	.5	3.4	2.5	1.1							7.5	7.1
NNW	.6	1.9	3.0	2.9	.2						8.9	8.8
NW	.6	2.7	2.3	3.0	.8						9.4	9.6
NNE	.1	1.0	1.3	1.5	.4	.2					4.5	11.2
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	13.1	/
TOTALS	8.5	31.1	25.4	19.1	2.3	.5					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.6	3.8	2.9	1.2						9.9	10.3
NNE		.5	1.6	1.2	.1						3.4	9.8
NE	.3	.3	.8	1.5							2.9	10.0
ENE		.1	2.0	1.4	.2						3.8	10.5
E	.5	.6	3.0	2.6	.2	.3					7.3	10.1
ESE	.1	1.2	1.6	1.9	.1						4.9	9.6
SE	.5	.4	1.5	1.6							4.3	8.8
SSE	.3	2.2	1.6	1.3	.2						5.6	8.2
S	.5	2.2	3.8	2.4	.2						9.0	8.6
SSW	.1	1.2	2.9	.4							4.6	7.5
SW	.4	1.2	2.5	1.1	.2						5.4	8.4
WSW	.4	1.4	2.3	1.7	.1						5.9	8.5
W	.2	1.0	2.5	2.0	.1						5.8	9.5
NNW	.2	1.0	1.6	3.3	1.2	.2					7.5	11.7
NW	.2	1.0	1.7	5.1	1.0	.2					9.1	12.4
NNW	.1	.6	2.0	3.3	1.3	.2					7.6	12.3
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	2.8	/
TOTALS	4.2	16.9	35.2	33.7	6.2	1.0					100.0	9.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.0	3.3	4.1	.5	.1					9.4	10.6
NNE	.3	.6	1.5	1.5	.3						4.4	9.5
NE		.2	1.6	1.2	.1						3.3	10.3
ENE	.1	.6	1.2	1.4							3.3	9.7
E	.1	1.5	3.2	2.7	.3	.2					7.5	9.8
ESE		.6	4.0	4.5		.2					9.6	10.6
SE	.3	.7	2.2	1.6							4.4	9.4
SSE	.5	.7	1.2	1.0	.4						3.2	10.4
S		1.0	2.9	2.9							6.8	10.1
SSW	.1	1.0	1.9	1.6							4.5	9.1
SW		.8	2.2	1.9	.3						5.2	10.4
WSW		1.0	2.6	2.6	.2						6.3	10.2
W	.1	.4	1.7	3.4	.1						5.8	10.9
WNW		.4	1.6	4.9	.6	.2					7.8	12.8
NW	.1	.6	2.2	4.6	2.0	.2					9.9	13.0
NNW	.2	.5	1.9	4.6	.2	.1					8.0	11.6
VARIABLE												
CALM	//////////										.5	//////
TOTALS	2.2	11.4	35.4	44.2	5.3	1.1					100.0	10.7

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MIC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.4	3.9	4.6	.8	.1						10.4	10.6
NNL	.1	.7	1.2	1.1								2.9	9.4
NE	.1	.7	1.2	1.5	.1							3.1	10.5
ENE	.2	.6	1.6	1.4								3.9	9.1
E		1.0	4.6	2.9		.1						9.6	9.1
ESE		1.3	6.3	4.4	.1							12.2	9.7
SE	.1	.6	1.6	2.9								5.5	10.4
SSE	.1	.7	.3	1.2								1.9	10.5
S	.1	.6	1.8	2.5	.1							5.2	10.5
SSW		.2	.6	1.7	.1							2.5	10.9
SW	.1	.6	1.6	1.7								4.0	9.9
WSW		1.1	2.3	2.4	.2	.1						6.0	10.4
W	.2	.4	3.5	2.9	.3							7.4	10.6
NNW		.5	2.0	4.0	1.1	.1						8.6	12.7
NN		.7	1.9	6.7	1.0	.1						9.9	13.1
NNW		.1	.7	1.6	3.9	.8						6.9	12.4
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	.1	
TOTALS	1.4	10.4	36.8	46.2	4.5	.6						100.0	10.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.5	3.5	1.9	.6						8.1	9.3
NNE	.3	1.4	.9	1.2							3.8	7.9
NE	.4	1.6	1.2	.4							3.7	6.9
ENE	.4	1.7	1.3	.6							3.7	7.1
E	.2	1.7	2.4	1.0							5.3	8.0
ESE	.4	3.3	5.3	2.4							11.4	8.2
SE	.3	3.1	3.7	2.3	.2						9.6	8.3
SSE	.4	1.4	1.6	1.0							4.4	7.8
S	.3	.6	2.7	1.5	.1						5.3	9.0
SSW	.5	1.1	.4	.4	.1						2.2	9.2
SW	.1	.5	.4	.6							1.8	9.2
WSW	1.0	1.4	.9	.1							4.2	8.3
W	.4	2.0	3.7	1.6	.2						8.0	8.6
WNW	.1	1.3	2.8	3.9	.9						9.8	10.6
NW	.1	.8	4.0	4.3	.4						9.6	10.8
NNW	.1	1.1	2.0	1.7	.5						5.5	10.1
VARIABLE												
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	4.0	//////
TOTALS	4.2	24.1	38.8	25.8	2.9	.2					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.5	1.7	1.9	1.7	.8						6.7	9.3
NNE	.5	.4	1.0	.9	.2						3.0	9.3
NE	.4	.9	.6	.4							2.4	6.8
ENE	.2	.4	.9	.3							1.8	8.1
E	.2	.4	2.2	1.1							4.1	8.9
FSE	.3	1.3	2.3	.5							4.4	7.6
SE	.6	2.7	2.5	1.6							7.0	7.9
SSE	1.0	2.0	1.7	.6							6.2	6.5
S	1.1	3.7	3.5	1.7							10.0	7.3
SSW	.8	.9	.5	.5							2.7	6.5
SW	.4	1.4	1.2	.6							3.7	7.2
WSW	.3	2.0	1.3	1.0							5.4	7.1
W	.5	3.5	2.0	.9	.2						7.2	7.0
NNW	.3	2.0	5.9	2.3	.3						11.6	8.5
NW	.5	1.0	2.8	2.7	.8						8.6	9.8
MNW	.3	1.4	1.2	1.2	.1	.1					4.3	9.0
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	11.0	/
TOTALS	8.0	29.0	31.5	18.1	2.4	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.6	2.4	2.9	.6	.1					8.0	10.0
NNE	.3	.6	1.1	1.0	.1	.0					3.4	8.9
NE	.3	.7	1.1	.9	.0						3.0	8.6
ENE	.2	.7	1.2	.9	.0						3.1	8.7
E	.2	1.2	2.3	1.8	.2	.1					5.7	9.4
ESE	.1	1.4	3.1	2.0	.1	.0					6.7	9.1
SE	.4	1.6	1.9	1.7	.0						5.6	8.4
SSE	.6	1.7	1.2	.9	.1						4.5	7.5
S	.7	2.3	2.7	1.7	.1						7.5	7.9
SSW	.3	1.2	1.4	.6	.0						3.6	7.5
SW	.4	1.3	1.7	.9	.1						4.4	7.9
WSW	.5	1.9	2.1	1.3	.1	.0					5.8	8.0
W	.6	2.6	3.2	1.7	.1	.0					8.3	8.1
WNW	.5	1.7	3.2	3.4	.3	.1					9.5	9.9
NW	.3	1.2	2.3	3.8	.2	.1					8.6	11.2
NNW	.3	.8	1.5	2.4	.4	.1					5.5	10.9
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	6.7	/
TOTALS	6.2	22.9	32.5	27.9	3.3	.5					100.0	8.4

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87  
MONTH: APR HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	1.1	2.2	2.2	.2						6.3	9.3
NNE	.4	1.3	1.6	1.1							4.4	8.1
NE	.2	1.7	2.2	.3							4.4	7.2
ENE		1.1	1.0	.9	.1						3.1	8.8
E	.2	1.1	.9	1.2							3.4	8.6
ESE	.3	1.1	1.7	1.3							4.1	8.3
SE	.1	1.7	2.3	1.3		.1					5.6	8.3
SSE	.9	2.3	1.4	.2							4.9	6.1
S	1.1	2.1	2.9	.7							6.8	6.9
SSW	.2	.8	.8	.7							2.6	7.6
SW	.3	1.1	1.2	.7	.1						3.4	8.0
WSW	.3	1.7	1.2	.2							3.4	6.3
W	1.3	5.1	4.0	.8	.2	.2					11.7	7.0
WNW	.2	3.1	4.9	1.6		.1					9.9	8.1
NW	.6	2.1	2.8	1.6	.2						7.3	8.6
NNW	.2	.8	1.1	1.4							3.6	9.1
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	15.0	/
TOTALS	7.2	26.2	32.2	15.9	1.0	.4					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.6	1.6	1.8	2.4	.2							6.6	9.0
NNE	.7	.4	2.1	.8	.1							4.1	8.4
NE	.3	.7	1.7	.8								3.7	7.8
ENE	.1	.6	1.2	.8								2.7	8.6
E	.1	.2	1.6	1.2	.1							3.8	9.5
EE	.1	1.3	2.6	1.3								5.3	8.5
SE	.4	1.8	2.0	.6	.1							4.9	7.4
SSE	.3	2.1	1.0	.2								3.7	6.1
S	.9	3.2	2.1	.6								6.8	6.2
SSW	.1	1.6	1.4	.6								3.7	7.6
SW	.3	.2	1.4	.3								2.3	8.1
WSW	.9	1.4	1.2	.2								3.8	6.0
W	1.2	5.8	3.9	1.0								11.9	6.4
WNW	.7	3.3	4.3	1.3	.3	.4						10.4	8.5
W	.4	2.1	1.4	1.9	.1							6.0	8.7
NNW	.3	.7	1.0	1.2	.1							3.3	9.0
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	17.1	/
TOTALS	7.6	27.8	30.8	15.2	1.1	.4						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0600-0600

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	1.1	2.1	2.4	.6							6.4	10.3
NNE	.4	.8	1.4	1.2								3.9	9.0
NE	.4	1.1	1.6	1.0								4.1	7.8
ENE	.1	.8	1.4	.4								2.8	7.8
E	.1	.8	2.3	2.4								5.7	9.6
ESE	.1	1.4	2.7	1.8	.1							6.1	8.9
SE	.3	2.4	2.0	1.3	.1							6.2	7.6
SSE	.6	1.7	1.1	.6	.1	.1						4.0	7.5
S	.8	2.0	2.0	.4								5.2	6.8
SSW		1.7	1.8	.6								3.6	7.9
SW	.4	1.6	1.8	.6								4.2	7.1
WSW	.7	1.7	1.6	1.1								5.0	7.4
W	.4	4.0	3.6	1.0		.7						9.6	7.7
NNW	.7	1.9	3.4	1.3	.1	.7						7.7	8.3
NW	.1	2.3	2.9	3.1	.7							9.1	9.8
NNW	.1	1.4	.9	2.0	.3							4.8	10.2
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	11.7	/
TOTALS	5.6	26.0	32.6	21.7	2.0	.6						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726397 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	2.2	3.2	5.7	.9						12.2	10.7
NNE	.1	.6	1.1	1.7	.2						3.9	10.3
NE	.3	1.0	1.6	1.3	.1						4.3	8.4
ENE	.2	.9	1.2	1.1	.1						3.6	8.9
E	.2	.7	3.7	2.7	.3						7.6	10.2
ESE	.2	1.9	4.3	3.6	.4						10.6	9.7
SE	.2	.6	2.2	2.9	.2						6.2	10.8
SSE	.3	.2	1.3	.6	.3						2.8	9.5
S	.1	.7	2.6	1.7	.1	.1					5.2	9.8
SSW	.1	1.1	1.3	1.2	.1	.1					4.0	9.2
SW	.1	1.0	2.2	1.4	.3						5.1	9.6
WSW	.1	.6	1.4	2.2	.4						5.1	10.6
W		1.1	3.0	2.2	.1						6.4	9.6
NNW		.2	2.6	2.3	.2	.2					6.2	12.2
NW		1.1	2.6	3.7	.8	.2					8.4	11.3
NNW		.1	.4	1.2	5.1	.6					7.4	12.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.9	/
TOTALS	2.7	14.9	35.6	39.3	5.9	.8					100.0	10.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	.7	3.7	7.7	.6						12.7	12.0
NNE		.4	2.0	1.7							4.4	9.6
NE		.8	1.3	1.6							3.7	9.7
ENE		.6	2.1	1.2							3.9	9.7
E	.2	.8	4.3	3.7	.7						9.7	10.4
ESE	.1	.4	4.3	6.8	.2						11.9	11.2
SE	.1	.6	2.8	5.0	.2						8.6	11.3
SSE	.1	.2	.6	.7							1.6	9.4
S		.2	.8	2.2	.3						3.6	12.0
SSW		.1	.6	1.4	.4	.1					2.7	13.8
SW		.5	.8	1.6	.2	.3					3.7	11.6
WSW		.7	1.6	2.3	.4						5.2	11.1
W		.4	2.6	2.9	.2	.1					6.2	11.1
WNW		.1	2.2	2.9	1.8	.2					7.2	13.4
NW		.1	.2	1.8	3.3	.9	.3				6.6	12.9
NNW		.1	2.1	5.0	1.0	.2					6.4	13.2
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.1	/
TOTALS	.9	7.0	33.7	50.1	6.9	1.2					100.0	11.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 JSAFETAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALMENA MI

PERIOD OF RECORD: 78-87  
 MONTH: APR HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.1	4.7	7.9	1.3								14.1	12.0
NNL	.1	.7	2.4	1.6	.1							4.6	10.0
NE	.2	1.0	2.0	1.7								4.9	8.8
ENL		.1	2.2	.9								3.1	9.7
E		.7	4.3	5.9	.1							11.0	10.8
ESE		.9	5.9	6.6	.4							14.0	11.0
SE	.1	.3	2.6	4.4	.2							8.1	10.9
SSE	.1	.1	1.0	.7								1.9	9.8
S	.2	.4	2.3	.1								3.1	11.9
SSW	.1	.2	.6	.2								1.1	12.4
SW		.7	1.6	.4	.2							2.9	13.7
WSW	.1	.3	.9	1.8	.2	.1						3.4	12.0
W		.2	1.8	2.4		.1						4.6	11.5
WNW	.1	.3	1.9	3.8	1.4	.4						8.0	13.2
NW			1.3	4.7	1.2	.2						7.4	14.0
NNW	.1	.3	1.4	4.9	.7	.1						7.6	12.8
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	.2	/
TOTALS	.9	5.7	33.8	51.7	6.6	1.2						100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS												TOTAL %	MEAN WIND
	1-5	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56			
N	.1	2.3	4.7	4.2	.3	.1							11.8	9.7
NNE	.1	1.4	2.7	.2									5.1	8.0
NE	.1	1.5	2.2	.4	.1								4.8	7.4
ENE	.4	2.3	2.1	.6	.1								5.8	7.1
E	.1	2.0	2.7	2.2									7.0	8.9
ESE	.3	3.2	0.5	2.6	.2	.1							13.0	8.6
SE	.6	2.6	2.6	1.4									7.0	7.7
SSE	.2	1.3	.8	.9									3.2	7.9
S	.3	.4	1.2	1.0									3.0	9.1
SSW	.7	1.0	.6										2.0	9.5
SW	.7	.6	1.2		.1								2.2	10.8
WSW	.1	.3	.6	1.0	.1	.1							2.2	11.1
W	.1	.3	2.0	1.6	.2	.2							4.5	11.1
NNW		1.4	3.7	3.6	.9	.1							9.7	11.1
NW	.	1.6	4.3	.4									7.2	11.6
NNW	.1	.1	2.6	4.9	.3	.2							8.2	11.7
VARIABLE														
CALM	/	/	/	/	/	/	/	/	/	/	/		3.1	/
TOTALS	2.7	21.2	37.3	31.8	2.8	1.0							100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 898

**GLOBAL CLIMATOLOGY BRANCH  
USAFETAC**      **PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 726360 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS (LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.6	1.4	3.3	2.3	.1							7.9	8.7
NNE	.6	1.6	1.9	.6								4.6	7.4
NE	.3	1.1	1.1	.6								3.1	7.5
ENE	.2	.6	.9	.6								2.5	8.1
E	.6	1.7	1.6	1.7	.1							5.8	8.3
ESE	.8	1.7	1.8	1.1								5.4	7.4
SE	1.3	2.0	2.6	.7	.1							6.7	6.8
SSE	1.0	3.1	1.1	.9								6.1	6.3
S	.5	2.1	1.7	.7								4.8	7.0
SSW	.6	.7	1.2	.2								2.3	6.6
SW	.4	1.1	.6	.4	.1							2.7	7.4
WSW	.2	.9	1.0	.3	.1							2.6	7.8
W	.4	2.0	3.6	1.1	.2							7.4	8.2
NNW	.6	2.5	2.9	2.9	.6							9.4	9.2
NW	.3	2.2	3.0	3.5	.4							9.5	9.6
NNW	.3	1.9	1.4	2.5	.1							6.2	9.3
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	13.3	1.1
TOTALS	8.8	26.4	29.7	20.0	1.9							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS: 947

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 7P-87  
 MONTH: APR HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	1.3	3.2	4.4	.5	.0						9.7	10.5
NNE	.3	.4	1.9	1.2	.1							4.4	8.8
NE	.3	1.2	1.7	1.0	.0							4.1	8.1
ENE	.1	.9	1.5	.8	.0							3.4	8.5
E	.2	1.1	2.7	2.6	.2							6.7	9.8
ESE	.3	1.5	2.7	5.1	.2	.0						5.8	9.6
SE	.4	1.5	2.4	2.2	.1	.3						6.7	9.0
SSE	.4	1.4	1.0	.6	.1	.0						3.5	7.3
S	.4	1.4	1.7	1.2	.1	.0						4.8	8.2
SSW	.1	.7	1.0	.8	.1	.0						2.7	9.0
SW	.2	.8	1.2	1.0	.2	.1						3.3	9.5
WSW	.3	1.0	1.2	1.2	.2	.0						3.8	9.1
W	.4	2.4	3.0	1.7	.1	.1						7.8	8.5
WNW	.2	1.6	3.2	2.5	.7	.2						8.6	10.3
NW	.2	1.4	2.2	3.3	.6	.1						7.7	10.8
NNW	.2	.7	1.5	3.4	.4	.1						6.2	11.4
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	7.7	/
TOTALS	4.5	19.7	33.2	30.7	3.5	.7						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS: 7195

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726340 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.5	1.2	2.6	1.2								5.7	8.0
NNNE	.3	1.1	.9	.5								3.2	6.7
NE	.5	1.3	.9	.2								2.7	6.4
ENE	.4	.3	.4	.1								1.3	6.0
E	.2	.6	1.3	.3								2.6	7.3
ESE	.5	2.0	1.8	.3								5.3	6.4
SE	.9	2.5	.9	.1								4.3	5.3
SSE	1.1	2.3	.6	.2								4.2	5.3
S	3.2	2.4	2.9	.1								8.6	5.4
SSW	.3	1.7	.9	.3								3.2	6.5
SW	.3	1.9	.6	.2								3.5	5.8
WSW	1.1	2.6	1.0	.3								4.9	5.7
W	1.0	5.9	2.3	.6								9.8	6.1
NNW	.8	4.4	3.2	.3								8.7	6.4
NW	.9	2.6	2.4	.4	.2							6.5	6.9
NNN	.2	.5	1.7	.5								3.1	8.0
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	22.4	1.1
TOTALS	13.3	33.9	24.3	6.0	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.7	1.4	1.9	1.2						5.2	9.5
NNE	.4	1.6	.6	1.4							3.7	8.1
NE	.2	1.1	1.5	.7							3.1	7.1
ENE	.4	1.0	.8	.1							2.3	6.1
E	.2	.4	1.4	.7	.1						2.5	8.3
ESE	1.0	2.1	1.2	.7							4.4	5.8
SE	.5	2.9	1.1	.3							4.9	5.9
SSE	.6	2.7	.5								3.4	4.8
S	1.8	2.7	2.3	1.0							7.7	6.4
SSW	1.1	1.5	.9	.1							3.5	5.4
SW	1.0	1.6	1.4	.2							4.4	5.8
WSW	.9	1.2	1.7	.2							4.6	6.0
W	1.6	7.6	2.7	1.0							12.9	5.9
WNW	1.1	5.6	2.2	.1							8.9	5.6
NW	.4	1.8	1.6	.6							4.5	7.0
NNW	.4	1.1	.9	.5							2.9	6.8
VARIABLE												
CALM											20.9	
TOTALS	12.0	36.3	22.0	8.4	.3						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	1.1	7.2	2.8	.1						6.8	9.1
NNE	.1	.9	1.2	1.3							3.4	8.9
NE	.4	1.8	1.5	.4							4.2	6.6
ENE	.4	.6	1.2	.4							2.7	7.3
E	.2	.6	1.7	.5							3.1	7.9
ESE	.3	1.2	2.7	.9							6.0	7.3
SE	.5	2.7	1.5	.5							5.3	6.4
SSE	1.5	2.9	1.2	.1							5.7	5.0
S	.4	1.8	3.1	1.2							6.6	7.9
SSW	1.3	1.4	1.9	.4							4.7	6.7
SW	.6	1.6	1.2	.1							3.5	6.2
WSW	.6	2.2	2.2	.6							5.6	7.2
W	1.5	7.3	3.3	1.4							13.5	6.3
WNW	.5	3.4	3.3	.9							8.2	7.0
NW	1.2	2.8	2.8	.8	.1						7.6	7.0
NNW	.2	1.3	1.2	.4							3.1	7.3
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	9.9	/
TOTALS	10.3	34.6	32.2	12.8	.2						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	2.3	3.4	3.7	.5						10.2	9.4
NNE	.1	.6	1.6	1.5	.3						4.2	10.3
NE	.1	2.3	2.3	.6							4.0	7.9
ENE		.8	1.0	1.0							2.7	8.9
E	.4	1.4	4.1	1.9							7.7	8.6
ESE	.3	2.7	4.5	2.3	.2						9.4	8.9
SE	.1	1.0	2.5	1.7							6.1	8.8
SSE	.3	1.9	1.8	.6							4.7	7.5
S	.3	2.2	1.7	3.7	.2						8.1	9.7
SSW	.7	.4	1.6	.9	.2						3.4	9.0
SW	.1	1.1	1.5	2.0	.1						4.8	9.7
WSW	.2	1.2	2.6	1.2							5.2	8.3
W	.6	1.1	4.4	1.9	.3						8.4	9.1
NNW	.3	.9	3.3	2.3							6.7	9.3
NW	.4	.4	3.1	3.3	.1	.2					7.7	11.0
NNW	.1	.9	2.0	1.8	.1						4.9	9.8
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	9	/
TOTALS	4.1	20.8	41.5	30.3	2.2	.3					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATM WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.7	2.4	5.6	.6						11.3	10.7
NNE		.6	1.8	1.1	.2						4.0	9.4
NE		1.0	2.3	.6							4.3	8.0
ENE		.5	2.3	1.4							4.2	9.3
E	.1	1.0	4.5	2.6							8.5	9.3
ESE	.1	1.1	7.4	7.5							16.1	10.3
SE	.1	1.0	4.9	4.6							10.6	10.1
SSE		.1	1.0	.8	.1						2.4	8.8
S	.1	.7	1.6	3.6	.1	.1					5.2	12.0
SSW			.6	1.8		.1					2.6	12.4
SW	.1	.7	1.1	1.8	.4						3.8	11.3
WSW	.1	.7	1.7	1.0	.4						3.5	10.4
W	.2	1.1	1.9	2.3	.3						5.8	9.8
WNW	.1	.4	1.8	4.6	.3	.1					6.8	11.8
NW		.2	1.5	3.8	.1	.2					5.8	12.1
NNW	.1	.5	1.1	3.3		.1					5.2	11.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	/	
TOTALS	1.4	10.8	39.0	45.5	2.7	.6					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	1.2	5.2	6.7	1.0	.2						14.2	11.5
NNE		.9	2.0	1.1							4.7	9.0
NE	1.0	2.3	.4	.1							3.8	8.4
FNE	.1	.7	1.9	.6	.1						3.0	9.3
E	.1	2.0	6.3	4.2							12.7	9.3
FSE	.2	1.3	8.7	9.6	.1						19.9	10.3
SE	.1	.4	3.4	4.1	.1						8.2	10.4
SSE		.1	1.4	1.1	.1						2.7	10.0
S	.1	.4	.9	1.8	.5						3.8	11.6
SSW	.1	.7	.1	1.2	.4						2.2	12.6
SW		.7	.4	.9	.3						1.8	12.5
WSW	.2	.2	.4	1.8							2.7	10.8
W	.1	.5	1.4	2.6	.2						4.8	11.3
WNW		.2	1.5	3.5	.2	.1					5.6	12.2
NW		.3	.8	2.7	.4						4.2	12.4
NNW		1.7	2.7	.6	.1						5.2	12.5
VARIABLE												
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	.6	//////
TOTALS	1.1	9.4	39.2	44.9	4.3	.4					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-5	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	2.2	5.8	4.2	.4						12.7	9.8
NNE	.3	1.7	2.5	1.0	.1						5.6	7.9
NE	.6	1.9	1.2	.3							4.1	6.1
ENE	.6	1.1	.5	.3							2.6	6.2
E	.3	3.2	3.5	.9	.1						8.1	7.2
ESE	.6	5.7	8.0	1.6							15.9	7.4
SE	1.2	5.7	5.7	.9							13.4	6.9
SSE	.1	2.3	1.9	1.0							5.3	7.6
S	.1	1.1	1.2	1.6	.1						4.1	9.4
SSW	.1	.3	.6	.6							1.7	9.6
SW	.3	.1	1.1	.5	.1						2.2	8.9
WSW	.2	.6	.6	.5	.1						2.2	9.0
W	.1	1.1	1.5	1.2							3.9	8.6
WNW	.3	1.2	1.4	2.6	.2						5.7	10.0
NW	.1	1.1	.9	3.1	.8						5.9	11.3
NNW	.5	1.2	3.0	.3							5.1	11.1
VARIABLE												
CALM	//////////										1.7	//////
TOTALS	5.3	29.8	37.6	23.3	2.2	.1					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56		
N	.8	1.7	2.5	1.2	.1							6.2	7.9
NNE	1.2	1.6	.8	.1	.1							3.7	5.7
NE	1.0	2.2	.8									3.0	5.2
FNE	.6	1.7	.2	.3								2.6	5.4
L	.9	1.5	1.1	.2								3.7	6.0
ESE	.5	2.5	1.8	.3								5.2	6.6
SE	1.3	3.9	2.5	.2								7.8	5.7
SSE	1.6	3.7	1.2	.8								6.9	5.7
S	2.5	3.9	1.5	1.0								8.8	5.8
SSW	.5	.7	.6	.2								1.9	6.2
SW	.9	.9	1.1	.2								2.9	6.4
WSW	1.0	2.3	1.0	.1								4.3	5.4
W	.9	2.7	1.8	.3	.1							5.8	6.4
WNW	.4	2.5	2.8	.8								6.5	7.2
NW	.3	1.4	3.4	1.6	.2							7.1	9.2
NNW	.6	.9	3.0	1.0								5.5	8.2
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	17.3	/
TOTALS	14.9	32.7	26.0	6.5	.5							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726790 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.0	2.3	3.4	.4	.0					9.0	9.8
NNE	.4	1.1	1.5	1.0	.1						4.1	8.3
NE	.3	1.4	1.6	.4	.0						3.9	7.0
ENE	.3	.7	1.0	.5	.0						2.7	7.6
E	.3	1.4	3.0	1.4	.0						6.1	8.4
ESE	.5	2.4	4.5	2.8	.0						10.3	8.6
SE	.6	2.6	2.8	1.6	.0						7.6	7.7
SSE	.7	1.9	1.2	.6	.0						4.4	6.5
S	1.1	1.8	1.0	1.7	.1	.0					6.6	8.0
SSW	.4	.9	.9	.7	.1	.0					2.9	8.2
SW	.5	1.0	1.0	.6	.1						3.4	8.1
WSW	.5	1.4	1.4	.7	.1	.0					4.1	7.5
W	.8	3.4	2.4	1.4	.1						8.1	7.4
NNW	.4	2.2	2.4	1.8	.1	.0					7.1	8.4
NW	.4	1.3	2.1	2.1	.2	.1					6.2	9.5
NNW	.2	.7	1.6	1.7	.1	.0					4.4	9.8
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	9.2	/
TOTALS	7.8	26.0	32.7	22.5	1.6	.2					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.6	2.1	.1							4.1	6.8
NNE	.1	.4									.6	3.8
NE	.1	.4	.2								.8	4.9
F NE	.2	.7	.2								.8	5.1
E	.2	.7	.3								.8	6.1
ESE	.3	.6	.9								1.8	6.5
SE	1.7	1.0	.6								4.1	4.4
SSE	2.1	4.0	.8	.1							7.0	4.6
S	3.0	7.0	3.6	.6	.1						14.2	5.6
SSW	.9	2.0	1.8	.7							5.3	6.6
SW	1.0	1.0	.9	.1							3.9	5.1
WSW	.9	3.0	1.2	.2	.1						5.4	5.9
W	.9	7.7	3.0	.2	.1						11.9	5.8
NNW	1.1	5.6	2.9	.6	.1						10.2	6.3
NW	.6	3.3	2.6	.4							7.3	6.9
NNW	.3	.6	1.1	.9							3.1	7.9
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	18.7	/
TOTALS	13.8	40.7	22.1	4.3	.3	.1					100.0	4.6

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726340 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N		1.2	1.3								2.7	6.6
NNE	.6	.6	.6								1.7	5.4
NE	.7	.3	.2								1.2	4.8
ENE	.2	.2	.1	.1							.9	5.9
E	.2	.4	.2								.9	5.3
ESE	.2	.9	.6	.1							2.0	6.8
SE	.6	1.2	.9	.1							2.9	5.7
SSE	.4	2.8	.3	.2							4.1	5.0
S	2.9	6.4	2.3	1.2							12.9	5.8
SSW	.8	2.6	2.2	.4							6.0	6.4
SW	.7	3.5	1.9	.2							5.8	6.0
WSW	1.2	3.3	1.7	.2							6.4	5.8
W	1.8	7.7	2.9	.4							12.8	5.5
NNW	1.4	5.0	2.9	.3	.1						9.8	6.1
NW	.9	2.7	2.0	1.2							6.3	7.1
NNW	.3	.7	1.1	1.2	.1						3.4	6.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	20.2	/
TOTALS	13.5	38.9	21.2	6.1	.2						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.9	1.0	.9	.9								4.3	7.1
NNE	.3	.7	1.0	.4								2.4	7.5
NE	.3	.4	.4	.4								1.7	7.6
ENE	.1	.0	.4	.2								1.6	6.8
E	.4	.7	.9									2.0	5.9
ESE	.2	1.3	1.1	.7								3.3	7.6
SE	.3	1.2	1.4	.1								4.1	5.9
SSE	.9	2.9	1.0	.4								5.1	5.7
S	1.8	4.0	4.3	1.9								12.8	6.8
SSW	.6	1.2	1.8	1.1								5.7	7.0
SW	.4	3.0	2.7	.6	.1							6.8	7.2
WSW	.7	2.1	2.7	.1		.1						5.7	6.7
W	.7	6.4	5.0	1.6								13.7	6.9
NNW	.6	2.9	5.6	1.7								10.7	7.9
NW	.3	2.4	2.7	2.1								7.6	8.2
NNW	.4	1.0	1.9	1.3	.1							4.8	8.8
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	7.9	/
TOTALS	9.1	35.2	33.8	13.7	.2	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALFENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.1	1.1	3.3	2.2	.2							7.0	9.4
NNE	.2	.3	.9	.4	.1							2.0	9.1
NE		1.0	.9	.4	.1							2.4	8.1
ENE	.1	.3	1.1	.5								2.1	8.8
E	.2	.6	1.7	.9								3.7	8.2
ESE		.4	4.0	.9								5.3	8.8
SE	.1	1.9	3.1	1.1								6.1	7.9
SSL	.2	1.3	3.3	.2								5.1	7.4
S	.2	1.4	4.9	3.8	.1							10.4	9.5
SSW	.7	.9	3.9	2.0								6.9	9.0
S#	.1	.3	3.2	2.7	.2							6.4	10.3
WSW	.2	1.6	2.6	1.9								6.3	8.4
W	.3	2.0	6.6	2.9	.1	.1						12.0	9.0
WNW	.3	1.4	3.2	4.2	.1							9.4	9.9
NW		.1	3.7	3.4								7.2	10.6
NNW		.4	2.4	3.4	.2							6.6	10.9
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	.9	/
TOTALS	2.4	15.7	49.1	31.0	1.2	.1						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.7	4.0	2.6	.3							8.6	10.3
NNE		.2	1.1	1.3							2.7	10.0
NE	.1	.6	1.7	.2							2.7	8.3
ENE		.3	1.0	.5							2.2	9.6
E	.1	.6	4.2	1.7	.1						6.7	9.2
ESE		.7	5.7	4.4							10.8	10.0
SE		.6	3.4	3.1							7.1	10.0
SSL	.2	.6	2.9	.9							4.6	8.6
S		.3	2.7	3.8	.1						6.8	11.3
SSW		.4	2.3	2.7	.1						5.6	10.9
SW		.4	2.3	2.7	.2						5.7	10.9
WSW		.7	2.3	3.1	.1						5.9	10.9
W	.1	1.0	3.6	5.1	.4	.1					10.3	11.0
WNW		.7	2.6	4.9	.2						8.3	11.6
NW		.1	2.8	3.7	1.1						7.7	12.1
NNW		.7	1.9	1.6	.6						4.4	11.4
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	/	
TOTALS	.6	7.6	44.4	43.9	3.3	.1					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	.7	3.9	6.3	.2						11.2	11.1
NNE		.6	1.8	.9	.1						3.4	9.2
NE	.1	.8	1.4	.2							3.1	8.7
ENE		.4	1.0	.2							1.8	8.1
E	.1	.6	5.2	1.7							7.6	9.1
ESE		1.7	6.8	5.0	.2						13.7	9.8
SE	.1	.6	5.6	3.2							9.4	9.5
SSE		.8	1.3	.6							2.7	8.5
S		1.1	2.8	3.1	.4						7.4	10.5
SSW		.1	.6	2.7	.1						3.1	11.7
SW	.1	.2	1.0	2.7							4.1	11.2
WSW		.4	1.8	2.7	.1						5.0	10.7
W		.6	2.8	3.7	.3						7.3	11.0
WNW		.1	.4	2.2	4.8	.2	.1				7.9	11.7
NW		.4	1.4	4.0	.7						6.6	12.2
NNW		.1	.7	.8	3.4	.7					5.3	12.9
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.3	/
TOTALS	.9	10.0	40.3	45.3	3.1	.1					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
 MONTH: JUN    HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	1.7	4.6	3.2								10.2	9.6
NNE	.3	1.0	1.8	.6								3.7	7.7
NE	.3	.8	.6	.1								1.8	6.3
FNE	.3	.0	1.2									2.4	6.1
E	.2	3.1	2.4	.3								6.1	6.4
CSE	.3	5.0	7.2	.7								13.2	6.9
SE	1.0	4.7	5.2	.7								11.7	6.8
SSE	.3	1.6	2.7	.9	.1							5.8	7.8
S	.4	1.3	2.2	1.1								5.1	8.2
SSW	.7	1.3	.7									2.6	8.4
SW	.1	.6	1.3	.7								2.7	6.7
WSW	.1	.6	2.4	1.0								4.1	9.0
W	.1	2.0	3.4	2.6	.1							3.2	9.2
WNW	.5	1.7	2.2	2.6								6.7	9.4
NW	1.6	2.6	3.1	.3								7.6	10.2
NNW	.1	.0	2.7	3.4	.3							7.0	10.9
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	1.2	/
TOTALS	4.6	26.0	44.0	22.4	.9							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	1.1	1.3	1.1							3.7	8.4
NNNE	.9	1.2	.4								2.6	4.4
NE	.6	1.7		.2							2.9	5.3
ENE	.4	.2		.1							.8	4.4
E	.6	.2	.1	.2							1.9	6.0
ESE	1.0	1.1	.7								2.8	4.6
SE	1.7	4.6	1.6	.1							7.9	5.1
SSE	2.1	6.3	1.3	.1							9.9	4.7
S	2.7	6.1	2.1	.4							11.3	5.3
SSW	.1	1.0	2.1	.3							4.4	7.0
SW	.9	.7	.7	.1							2.3	5.9
WSW	.2	1.9	.7	.2							3.1	5.8
W	.2	4.2	1.1	.6							6.8	5.7
WNW	.6	4.2	2.8	.4							8.0	6.4
NW	.3	3.6	4.7	1.4							10.0	7.7
NNW		1.0	2.8	.6	.2						4.6	8.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	16.0	/
TOTALS	13.1	40.2	22.3	6.1	.2						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	1.7	2.7	2.3	.1							6.5	9.3
NNE	.3	.7	.9	.4	.0							2.4	7.7
NE	.3	.7	.7	.5	.0							2.0	7.2
ENE	.2	.4	.6	.3								1.6	7.4
E	.3	.9	1.9	.6	.0							3.7	7.9
EE	.3	1.5	3.4	1.5	.0							6.6	8.4
SE	.7	2.2	2.7	1.1								6.7	7.3
SSE	.8	2.4	1.7	.4	.0							5.5	6.2
S	1.4	3.0	3.1	2.0	.1							10.1	7.4
SSW	.3	1.3	2.0	1.3	.0							4.9	8.2
SW	.4	1.7	1.7	1.2	.1							4.7	8.3
WSW	.4	1.7	1.9	1.2	.0	.0						5.2	7.9
W	.6	3.9	3.5	2.1	.1	.0						10.4	7.8
WNW	.6	2.7	3.1	2.5	.1	.0						8.9	8.5
NW	.3	1.7	2.8	2.5	.3							7.5	9.3
NNW	.2	.6	1.8	2.0	.3							4.9	10.3
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	8.4	/
TOTALS	7.2	26.8	34.7	21.6	1.2	.1						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0000-0200

DIRECTION 10 DEGREES	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.5	.7	.4	.1							1.6	5.5
NNC	.3	1.7	.2								1.9	5.1
NE	.2	.1	.3								.6	5.5
ENE	.1	.3	.2								.6	5.2
E	.5	.4	.1								1.1	4.2
ESE	.3	.4	.1	.4							1.3	7.2
SE	1.1	2.7	.8	.1							4.6	5.1
SSE	1.5	2.0	.6								4.9	4.6
S	3.3	4.2	2.3	.3							10.2	5.1
SSW	.6	3.0	1.6	.4							5.7	6.2
SW	.9	2.7	1.9								4.7	6.0
WSW	1.7	4.4	2.0	.1							8.3	5.4
W	1.7	7.7	2.2	.3							11.9	5.4
WNW	.4	5.8	2.2	.5							8.9	6.0
NW	.2	3.0	2.9	.2							6.3	6.6
NNW	.4	.9	1.1	.7							2.7	6.8
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	24.6	/
TOTALS	13.7	40.0	18.8	2.9							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 77639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS								TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40		
N	.5	1.0	1.0	.2					3.2	6.2
NNE	.6	1.1	.2						1.9	4.5
NE	.5	.9	.2						1.6	4.5
ENE	.3	.7	.1						.8	4.3
E	.2	.4	.1						.8	5.3
ESE	.2	.6	.2	.1					1.2	5.5
SE	.8	1.0	.8	.1					3.5	5.5
SSE	.9	1.7	.8	.1					3.0	5.5
S	3.1	5.6	1.5	.2					10.4	4.9
SSW	.6	3.1	1.4	.4					5.6	6.0
SW	1.5	3.7	1.3	.6	.1				6.9	6.0
WSW	1.2	3.4	1.5	.1					6.2	5.3
W	2.5	8.7	2.0	.2	.1				13.2	5.2
WNW	1.4	5.7	2.2	.6					9.9	5.9
NW	.5	1.6	1.7	.5					4.4	6.9
NNW	.3	.4	.5	.1	.1				1.5	7.1
VARIABLE										
CALM	//								25.8	//
TOTALS	15.3	29.6	15.5	3.5	.2	.1			100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
 MONTH: JUL HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	1.0	1.2	1.2	.2								3.5	5.8
NNE	.9	.6	.4									1.9	4.7
NE	.2	.8	.8									1.7	5.6
ENE	.1	.6	.5									1.3	5.8
E	.2	.4	.5	.1								1.3	6.5
ESE	.5	.0	.8									2.0	5.4
SE	1.0	1.7	.5	.2				.1				3.5	6.2
SSE	1.0	2.6	1.7	.2								5.5	5.9
S	1.4	4.1	2.9	.4			.1					8.9	6.3
SSW	.5	2.5	2.9									5.9	6.4
SW	1.1	4.3	3.2	.4								9.0	6.1
WSW	1.8	5.6	3.0	.2								10.9	5.5
W	1.1	5.5	2.9	.4								11.8	6.1
NNW	1.2	5.1	4.0	1.3								11.5	6.8
NW	.9	1.9	3.1	.8								6.7	7.2
NNW	.4	1.2	1.7	.4								3.8	6.9
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	10.6	/
TOTALS	13.2	48.0	31.2	4.7			.1	.1				100.0	5.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	1.7	3.0	2.7							7.1	9.0
NNE	.4	1.7	.8								2.5	5.7
NE	.2	1.6	.9								2.9	5.7
ENE		2.2	1.2	.1							2.5	6.9
E	.1	1.0	1.2	.2							2.5	7.6
ESE	.4	1.6	1.6	.6							4.3	7.1
SE	.6	2.2	2.6	.7							5.7	6.8
SSE	.4	1.9	2.0	.3	.1						4.8	6.7
S	.2	1.7	4.6	2.2	.4						9.1	9.6
SSW	.3	1.0	3.0	.9							6.0	7.9
SW	.1	1.0	4.0	1.7	.2						7.8	9.0
WSW		3.3	5.1	1.4							9.8	7.6
W	.5	2.0	5.9	1.5							10.4	7.8
WNW	.1	3.3	4.2	2.8							10.4	8.3
NW	.3	1.5	4.3	1.4							7.5	8.4
NNW	.2	.5	2.5	3.0	.1						6.3	10.2
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.2	/
TOTALS	4.2	29.2	46.8	18.7	.9						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1200-1400

DIRECTION IN DEGREES	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N		.7	4.4	3.2							8.3	10.2
NNN		1.2	.8	.1							2.0	6.8
NE		1.0	1.6	.3							2.9	7.6
ENE	.1	.6	1.1	.1							2.0	7.3
E		1.1	3.0	1.4							6.3	8.9
ESE		1.1	7.5	2.0							10.6	9.1
SE		.6	4.3	2.5							7.3	9.7
SSE	.3	.7	1.5	.8							3.4	8.2
S	.3	1.2	3.3	2.2	.1						7.1	8.9
SSW		.5	1.5	1.7							4.0	9.6
SW		1.4	2.9	1.8	.2	.1					6.7	9.8
WSW	.1	1.5	4.0	1.5	.1						7.2	8.5
W	.1	1.0	6.1	2.5	.1						10.8	9.0
WNW	.1	1.5	3.5	2.9	.1	.1					8.2	9.9
NW	.1	1.0	2.4	3.4							6.9	10.3
NNW		1.1	1.5	3.0	.4						6.0	11.0
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.2	/
TOTALS	1.2	17.5	50.3	29.5	1.1	.2					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	.4	4.4	3.4	.3						8.7	10.5
NNE		.9	2.5	.3							3.5	8.4
NE		.8	1.2	.2							2.2	7.4
ENE	.1	.3	1.1	.2							1.7	8.4
E		1.0	6.7	2.0							9.7	8.9
ESE		1.1	7.7	5.4							14.6	9.9
SE	.1	.6	5.4	3.9							9.7	9.6
SSE	.2	.4	1.8	2.7							4.6	9.8
S	.1	.7	2.4	2.3							4.9	10.3
SSW		.4	1.6	1.7	.1						3.9	10.4
SW	.1	.8	2.2	1.3		.1					4.4	9.5
WSW	.1	.8	2.5	.9	.3						4.5	9.4
W		1.7	2.8	2.4	.2						7.1	9.6
WNW	.1	1.1	3.0	2.3	.3						6.8	9.8
Ww		.9	2.4	3.5	.5						7.2	11.1
NNW		.3	1.7	4.2	.1						6.3	11.8
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.1	/
TOTALS	1.0	11.4	49.2	36.2	1.9	.1					100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALFENA MI

PERIOD OF RECORD: 77-86  
 MONTH: JUL HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	1.1	4.6	2.4								8.4	9.0
NNE	.1	1.8	1.0	.7								3.2	6.6
NE	.3	1.1	.6									2.8	5.4
ENE	.5	.4	.3									1.3	5.1
E	1.0	2.1	2.8	.7								6.8	6.4
ESE	.5	5.1	7.2	.6								13.4	7.1
SE	.6	6.2	6.6	.6								14.1	6.8
SSE	.3	3.0	1.8									5.2	6.3
S	.2	1.7	2.8	1.8								7.1	8.3
SSW	.1	.7	1.3	.4								3.0	8.3
SW	.6	1.6	.2	.2	.1							3.0	7.9
WSW		1.6	1.2	.2								3.1	6.8
W	.1	2.7	2.7	1.2	.3							6.5	8.6
NNW	.2	2.2	2.7	1.5	.1	.1						6.8	8.6
NW	.3	1.5	2.7	1.2	.1							5.8	8.6
NNW	.1	.9	3.7	3.1								7.7	9.9
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	1.8	/
TOTALS	5.4	34.0	43.9	14.3	.6	.1						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.2	1.9	.2							4.0	6.5
NNL	.6	1.0	.5								2.2	5.3
NE	.3	.3									.6	4.0
ENE	.4	.5	.2								1.2	4.6
E	.5	.6	.3								1.4	5.0
ESE	1.0	2.0	.3	.2							3.5	5.1
SE	1.5	4.5	1.8	.3							8.2	5.4
SSC	2.0	3.7	.4	.1							6.2	4.4
S	3.5	6.9	3.0	.5							14.0	5.3
SSW	.9	1.7	1.4								3.5	6.0
SW	.2	2.4	1.3								4.5	5.2
WSW	1.5	2.7	.4	.1							4.3	4.5
W	1.4	4.1	.9	.6							7.0	5.6
WNW	.4	5.5	2.0	.9							8.4	5.9
NW	1.0	3.0	3.2	.5							7.8	6.6
NNW	.2	1.4	2.3	.4	.1						4.4	7.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	18.7	/
TOTALS	16.5	41.0	20.1	3.7	.1						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.0	2.6	1.5	.0						5.6	8.7
NNE	.4	1.1	.8	.1							2.4	6.1
NE	.2	.5	.7	.1							1.9	6.0
FNE	.2	.6	.6	.1							1.4	6.4
E	.3	1.0	1.9	.5							3.7	7.7
FSE	.4	1.0	3.2	1.2							6.4	8.1
SE	.7	2.1	2.9	1.0							7.1	7.2
SSE	.9	2.1	1.3	.5	.0						4.7	6.3
S	1.6	3.2	2.8	1.2	.1	.0					9.0	6.8
SSW	.2	1.6	1.6	.7	.0						4.7	7.4
SW	.5	2.2	2.3	.8	.1	.0					5.9	7.4
WSW	.8	2.6	2.5	.6	.1						6.8	6.6
W	.9	4.7	3.3	1.2	.1						9.8	7.0
WNW	.5	3.0	3.0	1.5	.1	.0					8.9	7.5
NW	.4	1.8	2.8	1.5	.1						6.6	8.3
NNW	.2	.8	1.9	1.8	.1						4.9	9.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	10.3	/
TOTALS	8.8	31.6	34.5	14.2	.6	.1	.0				100.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAF/TAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	1.0	.6	.2								1.9	7.4
NNE		.7	.4								.8	7.6
NE	.1	.7	.6								1.0	6.1
ENE	.2	.8	.5	.2							1.8	6.4
E	.2	.7	.1	.2							.9	7.1
ESE	.3	1.0	.1	.1							1.5	5.1
SE	.5	1.0	.5	.3							2.9	6.0
SSE	1.4	3.0	1.5	.4							6.3	5.7
S	3.7	6.6	2.8	.5							13.5	5.3
SSW	1.9	3.2	1.1								6.2	4.8
SW	2.2	4.7	.5								7.0	4.5
WSW	1.5	4.5	.9								6.9	4.7
W	2.4	7.6	1.1	.1							11.2	4.9
WNW	1.3	3.5	2.4	.4							7.8	5.9
NW	.4	1.7	1.0								3.1	5.6
NNW	.2	.6	.9								1.7	6.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	25.5	/
TOTALS	16.5	40.7	15.2	2.6							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.9	.8	.8	.2								2.6	6.2
NNNE												1.4	6.2
NE	.2	.6	.3	.1								1.3	5.8
ENE	.1	.4	.4	.2								1.6	6.7
E		.7	.5	.7								1.1	8.4
ESE	.4	.3	.2									1.0	4.9
SE	.6	1.0	.9									2.5	5.4
SSE	1.2	2.6	.9	.2								4.8	5.1
S	2.2	3.3	2.1	1.3								11.8	6.3
SSW	1.2	3.2	2.5									6.9	5.6
SW	1.4	4.2	1.7									8.0	5.1
VSW	2.5	4.7	1.0									8.2	4.7
S	1.6	2.2	2.3	.2								11.3	5.2
WNW	2.2	2.8	1.7	.1								6.9	5.5
NW	.3	1.4	.9	.1								3.1	5.7
NNW	.3	.9	.1									1.3	4.8
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	26.3	/
TOTALS	15.5	37.5	17.4	3.2								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0600-0600

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.5	1.0	.4	.2							2.2	5.9
NNE	.1	.2	.4	.1							1.5	5.9
NE	.1	.2	.5	.5							1.3	7.8
ENE	.3	.2	.6	.2							1.4	6.8
E	.5	.6	1.1								2.3	6.4
ESE	.3	.6	.6	.1							1.7	6.1
SE	.9	1.4	1.2	.2							3.7	6.0
SSE	1.2	2.7	.6	.1							4.3	4.7
S	2.0	3.0	3.3	1.4							10.5	6.5
SSW	1.5	3.0	2.9	.2							8.6	6.0
SW	1.4	5.7	3.2	.2							10.1	5.9
WSW	1.9	4.1	1.5								7.5	5.0
-	2.4	6.5	3.0	.1							12.4	5.2
NNW	1.2	4.3	2.3	.5							9.6	6.4
NW	.9	2.9	1.5	.4							5.7	6.1
NNE	.4	1.0	.6	.3							2.4	6.2
VARIABLE												
CALM	/ / / / / / / / / /										15.9	
TOTALS	15.9	39.4	24.0	4.9							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS: 930

AD-A187 849

ALPENO MICHIGAN REVISED UNIFORM SUMMARY OF SURFACE  
WEATHER OBSERVATIONS PARTS A-F(U) AIR FORCE  
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT

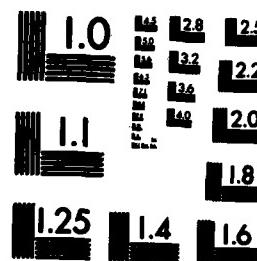
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UNCLASSIFIED

OCT 87 USAFETAC DS-87/659

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0900-2100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	1.7	2.9	.9								5.8	7.5
NNC	.3	.9	1.1	.2								2.4	7.1
NE	.1	1.1	1.1	.4								2.7	7.2
ENE	.1	1.3	1.1									2.5	6.6
E	.2	1.1	1.4	.1								2.8	7.2
ESE		.4	1.0	.3								2.7	8.6
SE	.8	1.9	1.9	.6								5.3	6.6
SSE	.3	1.7	2.2	.2								4.4	6.8
S	1.0	4.1	5.5	.8								11.3	7.0
SSW	.4	1.6	3.4	1.2								6.7	8.0
SW	.4	2.6	4.4	1.1								8.5	7.9
WSW	.8	2.9	6.1	1.1								10.9	7.4
-	.6	3.4	5.6	.8	.1							10.5	7.3
VNW	.3	2.7	3.7	2.5								9.1	8.5
NW	.5	1.6	3.4	3.0								8.4	9.3
NNW	.1	1.0	1.9	.8	.2							4.8	8.2
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	1.3	/
TOTALS	6.1	30.9	47.6	13.9	.3							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.1	2.0	3.5	2.0							7.7	8.8
NNE		.6	1.6	.3							2.8	8.1
NE	.3	1.1	1.6	.3							3.3	7.4
ENE			1.2	.1							1.3	8.1
E	.2	1.7	3.4	.4							5.4	8.0
ESE		1.5	5.7	2.5							9.5	8.7
SE	.4	.0	4.2	1.6							7.0	8.7
SSE	.1	1.4	1.4	.6							3.5	7.5
S	.4	.0	4.6	2.6	.1						8.6	9.2
SSW		1.2	2.6	2.0							5.8	9.3
SW		1.6	2.9	1.3							5.8	8.5
WSW	.1	1.2	3.9	2.5							7.6	9.2
W	.3	2.5	5.2	3.0							11.0	8.8
WNW	.1	1.6	3.4	3.7	.3						9.1	10.0
NW		1.7	1.6	2.5							5.4	9.5
NNW	.1	.8	2.2	2.0	.2						5.3	10.2
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.9	/
TOTALS	2.3	19.7	49.2	27.3	.6						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N		1.0	4.6	2.8	.1						6.5	9.7
NNE	.2	1.0	2.0	.5							3.8	7.6
NE	.1	1.1	1.4	.3							2.9	7.6
ENE		.4	2.6	.1							3.2	8.1
E		1.5	5.5	.5							7.5	8.1
ESE	.2	1.4	9.6	3.7							14.8	8.9
SE	.1	1.7	4.1	2.3							9.1	8.7
SSE	.4	1.0	1.4	1.0							3.8	7.7
S		.8	2.7	1.5							4.9	9.3
SSW		.6	1.9	1.3	.2						4.1	10.1
SW		.6	2.5	1.2	.1						4.4	9.5
WSW	.1	1.0	2.8	1.4	.1						5.4	9.2
W	.1	1.3	4.6	2.7	.1						8.8	9.2
WNW		1.5	2.5	2.9	.1						7.0	9.8
NNW		.9	2.5	3.7	.1	.1					7.2	10.7
NNW		.2	1.3	2.0							3.7	10.5
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.9	/
TOTALS	1.3	16.1	52.9	27.8	.9	.1					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFEFAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	2.4	2.3	.5							5.5	7.0
NNE	.5	1.7	1.5	.1							3.9	6.1
NE	.4	2.2	.9								3.4	5.6
ENE		2.3	.5	.2							3.0	6.0
E	.9	2.0	1.5	.2							4.6	5.9
ESE	.9	4.6	4.9	.3							10.6	6.6
SE	1.5	5.8	5.6	.6							13.5	6.4
SSE	.4	3.0	2.8	.9							7.1	7.0
S	1.3	2.5	3.0	.5							7.3	6.4
SSW	.5	1.2	.5	.5							2.8	6.5
SW	.3	2.2	1.5	.4							4.4	6.8
WSW	.5	1.6	1.1	.3							3.5	6.5
W	1.0	3.0	2.9	.3							7.2	6.5
NNW	.5	2.0	3.9	.9	.1						7.4	7.8
NW	.2	1.1	2.5	1.1							4.8	8.3
NNW	.3	.8	2.8	1.9							5.8	9.3
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	4.9	/
TOTALS	9.6	28.3	38.2	8.9	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.5	1.2	.6								2.4	5.6
NNE	.4	.7		.1							.8	4.4
NE	.4	.2	.3								1.1	4.8
ENE	.3	.4	.5	.1							1.4	6.2
E	.8	.9	.1	.2							1.9	5.1
ESE	.9	1.1	.4								2.4	4.8
SE	1.2	3.7	1.6	.5							6.7	5.8
SSE	1.9	4.3	1.3	.6							8.3	5.6
S	3.4	7.3	2.9	.5							14.2	5.3
SSW	1.1	1.8	.8	.1							3.8	5.1
SW	.8	3.4	.5								4.7	5.0
WSW	1.4	5.1	.8								5.3	4.7
W	1.5	4.3	1.3								7.1	5.2
NNW	1.9	4.6	2.6	1.0							9.6	6.3
NW	.4	2.7	1.8	.4							5.1	6.4
NNW	1.6	.3	.2								2.2	6.3
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	23.3	/
TOTALS	16.5	40.6	15.6	4.0							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 776390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.4	2.0	.0	.0						4.6	7.9
NNE	.2	.8	1.0	.2							2.2	6.9
NE	.7	.9	.6	.2							2.1	6.7
ENE	.1	.0	.9	.1							2.0	6.9
E	.3	1.0	1.7	.2							3.3	7.2
ESE	.4	1.4	2.9	.8							5.5	7.7
SE	.8	2.2	2.6	.8							6.3	7.0
SSE	.9	2.4	1.5	.5							5.3	6.2
S	1.7	3.9	3.5	1.1	.0						10.3	6.6
SSW	.8	2.1	2.0	.7	.0						5.6	6.8
SW	.8	3.1	2.2	.5	.0						6.6	6.5
WSW	1.1	4.9	2.2	.7	.0						6.9	6.5
W	1.2	4.5	3.2	.9	.0						9.9	6.5
NNW	.9	2.9	2.7	1.6	.1						8.2	7.5
NW	.4	1.7	1.9	1.4	.0	.0					5.3	8.2
NNW	.2	1.0	1.3	.9	.1						3.4	8.5
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	12.4	/
TOTALS	10.4	32.9	32.5	11.6	.2	.0					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS: 7440

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0000-0200

		WIND SPEED IN KNOTS												
DIRECTION (DEGREES)		1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	TOTAL %	MEAN WIND
N		.5	1.7	1.8	.2								4.1	6.2
NNN		.3	.3	.8	.3								1.9	7.4
NE		.4	.9	.4	.2								1.9	6.2
ENE		.1	.9	.9	.1								2.0	6.8
E			.7	.7	.2								1.6	7.2
FSE		.2	1.2	.8	.1								2.3	6.7
SE		1.9	1.3	1.9	.3								5.0	6.4
SSE		1.4	3.0	1.0	.4								5.8	5.3
S		2.3	6.1	2.9	1.6								12.9	6.1
SSW		1.3	2.4	1.8	.3								5.9	5.7
Sb		1.4	3.6	2.3	.6								8.1	6.1
WSW		.9	3.1	1.3	.8								6.1	6.3
W		1.8	6.7	2.9	.4								11.6	5.6
WNW		.9	4.0	2.6	.6	.2							8.2	6.5
NN		.3	1.0	1.7	.7								3.7	7.6
NNW		.3	.4	.9	.4								1.7	7.5
VARIABLE														
CALM		/	/	/	/	/	/	/	/	/	/	/	17.4	/
TOTALS		19.1	37.1	24.1	7.0	.2							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS: 903

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											MEAN WIND %
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N	.4	2.0	2.0	.1								4.6 6.6
NNE	.2	.9	1.2	.1								2.4 6.8
NE	.3	.8	1.0	.1								2.2 6.6
ENE	.3	.3	.1	.4								1.2 7.1
E	.1	.4	.6	.6								1.8 8.5
ESE	.3	1.0	.6	.4								2.3 7.1
SE	.2	1.4	1.4	.6								3.7 7.6
SSE	.9	3.0	1.2	.2								5.8 5.5
S	1.0	0.0	4.2	.9								12.1 6.5
SSW	.6	3.9	1.7	.4								6.7 6.4
SW	1.3	3.1	2.2	.6								7.2 6.3
WSW	1.4	3.4	2.3	.1								7.3 5.7
W	2.3	5.9	2.6	.4								11.2 5.5
WNW	.6	2.9	2.3	.6								6.3 6.8
NW	.2	1.7	1.0	.8	.1							3.8 7.5
NNW	.6	.6	1.0	.1								2.2 6.3
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	/	19.1 / / / /
TOTALS	10.9	37.9	25.4	6.4	.1	.1						100.0 5.2

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	.8	2.0	.7								3.8	7.8
NNE	.1	1.2	.8	.1								2.2	6.2
NE	.4	1.0	1.1	.2								2.8	6.5
ENE		.2	.7	.7								1.2	8.7
E		.8	1.0	.7								2.4	8.7
EE	.2	.6	.7	1.3								2.8	9.7
SE	.7	1.6	1.4	.3								4.2	6.4
SSE	1.1	2.1	1.7	.6								5.4	6.3
S	1.4	5.7	4.2	1.3	.1							12.8	6.7
SSW	1.1	3.7	3.6	.4								8.8	6.4
SW	.9	2.8	3.2	.4								7.0	6.7
WSW	1.0	2.6	2.4	.1								6.1	6.3
W	1.7	6.2	3.2	.7								11.9	5.9
WNW	.7	3.0	2.4	.3								7.3	6.2
NW	1.0	1.1	1.6	.6								4.4	7.0
NNW	.3	.4	.8	.2								1.8	6.8
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	15.0	/
TOTALS	11.0	34.7	31.0	8.2	.1							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.8	2.9	1.6							6.7	8.2
NNE	.4	.9	1.9	.7							3.9	7.6
NE	.1	.8	1.0	.4							2.3	7.8
FNE	.1	.7	1.0	.3							2.1	7.7
E		.6	1.3	1.0	.1						3.0	9.1
ESE	.2	.8	2.6	1.2	.1						5.0	9.0
SE	.2	1.6	.9	.6							3.2	6.9
SSE	.1	1.7	2.1	1.2	.1						5.2	8.3
S	.3	2.6	6.7	2.6							12.1	8.5
SSW	.4	2.7	4.0	1.4							8.7	8.0
SW	.2	2.6	4.2	1.6							8.8	8.1
WSW	.6	2.6	3.6	2.2	.1						9.0	8.2
W	.3	2.7	4.0	2.3							8.8	8.5
NNW	.2	1.7	4.0	2.1							7.7	8.9
NW	.2	2.7	1.9	2.1	.3						6.9	9.4
NNW	.8	1.2	1.7	1.4	.1						5.2	8.4
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	1.6	/
TOTALS	4.9	25.7	43.7	23.4	.9						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.6	4.8	3.1							9.8	9.2
NNF	.1	1.0	1.8	.8							3.7	8.1
NE		.9	1.1	.6							2.6	8.1
LNE		.7	1.3	.8							2.8	8.9
E		1.0	2.1	1.2	.2						4.6	9.5
ESE	.1	1.0	3.8	1.0							6.4	9.0
SE	.1	.9	1.7	.8							3.4	8.5
SSE	.2	1.1	2.2	.6	.1						4.4	8.5
S	.1	1.3	5.8	5.0							12.2	9.8
SSW		1.2	3.0	3.0							7.2	10.0
SW		1.0	2.8	2.0	.1						6.7	9.2
LSW	.2	1.6	3.1	3.6	.1						8.5	9.7
W	.4	1.1	3.4	3.4	.1						8.6	9.6
NNW	.2	1.1	2.7	2.7							6.7	9.5
NW	.2	.7	2.0	4.2							7.1	10.8
NNW	.2	.3	1.9	1.7							4.1	9.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	1.2	/
TOTALS	2.7	17.2	43.4	35.1	.7						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1500-1700

DIRECTION IN DEGREES	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	1.4	5.1	3.1							9.9	8.9
NNE	.1	.6	1.1	1.0							2.8	8.7
NE	.1	1.0	1.3	.4							2.9	7.6
ENE		1.2	1.7	.4							3.1	6.2
E	.1	1.2	0.9	1.4	.1						5.8	8.8
ESE	.1	2.0	6.4	2.6							10.1	6.8
SE	.1	1.4	3.2	1.2	.1						6.1	8.4
SSE	.3	1.0	1.0	1.9							4.0	9.9
S	.1	1.7	3.7	3.9	.1						9.1	10.1
SSW		1.1	2.2	1.2							5.2	9.2
SW	.1	.7	4.0	1.0							6.3	9.5
WSW		1.2	3.1	2.0							7.1	9.6
W		1.0	3.2	2.6	.1						7.1	10.1
WNW		1.8	2.6	3.7							8.8	9.6
NW	.2	.8	2.6	2.7							6.2	9.7
NNW	.7	2.4	2.7	.1							5.6	10.5
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.7	/
TOTALS	1.2	16.9	46.3	34.3	.4	.1					100.0	9.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	OF 56		
N	.2	2.3	2.2	.6								5.3	7.0
NNE	.2	1.7	1.2	.3								3.0	6.7
NE	.7	1.7	.7	.1								2.8	5.4
ENE	.2	1.9	1.2	.2								3.7	6.5
E	.7	2.0	1.2	.6								4.9	6.4
ESE	.8	1.9	2.7	.7	.1							6.1	7.3
SE	.8	3.0	2.2	.1								6.1	6.3
SSE	.8	2.9	3.8	.4	.1							8.0	6.9
S	.9	3.8	5.7	.2	.2							10.8	7.1
SSW	.2	2.4	1.3	.3								4.3	6.5
SW	.4	2.7	1.7	.4	.1							5.3	6.5
WSW	.9	1.4	.9	.7								3.9	6.7
W	.8	3.8	2.3	1.2								8.1	6.8
WNW	.4	4.1	2.3	.8								7.7	6.6
NNW	.5	2.4	2.3	1.6								6.7	7.9
NNW	.2	1.3	1.9	1.6	.1							5.1	8.7
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	8.2	/
TOTALS	8.7	39.0	33.7	9.8	.7							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	1.2	1.2	.3							3.0	7.1
NNE	.6	.7	.6	.4							2.2	6.6
NE	.4	.7	.8								1.9	5.8
ENE	.2	1.2	.7	.3							2.4	6.6
E	.4	1.6	.9	.4							3.3	6.5
ESE	.4	1.0	1.3	.2							3.0	6.6
SE	.4	1.8	1.2	.4							3.9	6.7
SSE	1.2	4.5	1.7	.3							7.6	5.5
S	1.7	6.1	3.8	1.1	.3						13.0	6.5
SSW	.8	2.0	1.2	.4							5.2	6.0
SW	.4	2.3	1.2	1.0							5.0	7.2
WSW	1.3	2.4	1.4	.6							5.8	6.2
W	.7	8.1	2.1	.4							11.3	5.7
NNW	1.0	3.6	2.4	.4	.1						7.6	6.5
NW	.1	1.6	2.0	.7							4.3	7.7
NNW	.4	.7	1.2	1.0							3.3	8.3
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	17.1	/
TOTALS	10.4	40.0	23.8	8.2	.2	.1					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.6	2.7	1.2							5.9	8.0
NNE	.3	.8	1.2	.5							2.7	7.3
NE	.3	.9	.9	.3							2.4	6.8
ENE	.1	.6	.9	.4							2.3	7.5
E	.2	1.1	1.3	.8	.1						3.4	8.1
ESE	.3	1.2	2.2	1.0	.2						4.8	8.3
SE	.5	1.7	1.7	.5	.0						4.5	7.1
SSE	.7	2.4	1.9	.7	.0						5.8	6.8
S	1.0	4.1	4.6	2.1	.1						11.9	7.6
SSW	.6	2.6	2.3	1.1							6.5	7.3
SW	.6	2.4	2.7	1.1	.0						6.8	7.4
WSW	.3	2.3	2.3	1.3	.0						6.7	7.5
W	1.0	4.4	3.0	1.4	.0	.0					9.8	6.9
WNW	.5	2.7	2.7	1.4	.0	.0					7.4	7.6
NW	.3	1.9	1.9	1.7	.1						5.4	8.7
NNW	.4	.7	1.4	1.1	.0						3.6	8.7
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	10.0	//////
TOTALS	7.9	31.1	33.9	16.6	.4	.0					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.2	.6	1.2							3.5	8.3
NNE	.2	.0	.0	.1							1.5	5.9
NE		.0	.4	.3							1.3	7.5
FNE			.2								.2	8.5
E		.0	.5	.4							1.4	8.8
ESE	.2	1.4	1.4	1.0	.1						4.1	8.1
SE	.2	2.3	1.3	.9							4.6	7.4
SSE	.9	2.2	1.1	.9							5.1	6.2
S	1.4	4.7	3.1	1.9							11.2	6.9
SSW	1.1	2.2	2.6	.8							6.9	6.8
SW	2.2	3.1	1.9	1.3							8.5	6.3
WSW	1.4	3.7	1.9	.4							7.4	6.0
W	1.0	2.1	2.3	.6							12.0	6.2
WNW	.4	3.4	2.3	1.9	.1						8.2	7.8
NW	.5	1.1	1.3	1.0							3.9	7.8
NNW	.1	.6	.6	.3							1.7	7.6
VARIABLE												
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	18.5	//////
TOTALS	10.0	34.8	23.4	13.0	.2						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	.5	.8	.4							2.4	7.1
NNE	.2	.6	.6	.2							1.7	6.4
NE	.2	.8	.5	.2							1.7	6.6
ENE		.4	.9	.2							1.5	7.6
E	.1	.6	.6	.2							1.6	7.4
ESE	.2	1.2	1.0	1.1	.2						3.7	9.1
SE	.8	1.1	1.6	.2	.1						3.8	7.1
SSE	.9	1.0	1.0	1.1							4.8	7.0
S	1.8	5.4	4.1	1.0							12.3	6.4
SSW	.9	2.6	2.5	.4							6.3	6.5
SW	.9	2.0	3.0	.4							7.2	6.4
WSW	1.1	3.3	2.5	.6							7.6	6.4
W	1.6	6.1	2.5	.5	.1						11.1	5.9
WNW	.4	3.2	2.9	1.4							8.0	7.4
NW	.6	1.5	1.6	.9							4.6	7.5
NNW	.3	.7	.4	.6							1.6	6.4
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	20.1	11.1
TOTALS	10.6	32.5	26.5	9.9	.4						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639G STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.3	.1	1.3	.6								2.2	8.4
NNE	.3	.7	.5	.2								1.6	6.9
NE	.1	1.1	.8	.1								2.0	6.8
ENE	.3	.6	.5	.3								1.8	6.9
E	.5	.2	1.0	.3								2.2	6.9
ESE	.3	.2	1.4	1.2	.1	.1						4.0	9.6
SE	.3	1.6	1.7	.5								4.4	7.0
SSE	1.0	1.2	1.6	.3								4.6	7.0
S	1.2	5.5	4.5	1.7	.1							13.0	7.2
SSW	1.5	3.9	1.9	.2								7.5	5.6
SW	.9	3.0	2.8	.5								6.9	6.5
WSW	1.3	3.1	1.7	.6								6.8	6.1
W	1.2	4.9	3.9	.4	.1							10.5	6.4
WNW	.9	3.7	3.4	.6	.1							8.7	6.8
NW	.6	1.4	2.6	1.0	.1							5.6	8.0
NNW	.1	.2	.4	1.1								1.8	9.8
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	16.3	/
TOTALS	10.4	32.4	30.1	10.1	.5	.1						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	.9	2.5	1.2	.2						4.8	9.2
NNL		.6	.9	.7							1.7	7.9
NE	.3	.9	1.1	.9							3.1	8.1
ENE		1.0	.6	.4							2.0	7.7
E	.1	1.3	1.5	.8							3.7	8.2
ESE	.2	1.0	2.4	1.3							4.8	8.9
SE	.4	.5	1.7	2.5	.1						5.3	9.9
SSE	.2	1.5	1.9	1.7	.1						5.5	9.0
S	.3	3.1	5.1	3.3	.4						12.3	8.9
SSW	.4	1.4	4.4	1.6	.2						8.1	8.7
SW	.6	1.0	3.3	1.4	.2						7.4	8.2
WSW	.6	2.7	3.7	1.7							8.7	7.8
W	.9	2.1	5.1	2.2							10.5	8.1
WNW	.3	1.6	3.5	2.8	.4						8.7	9.4
NW	.4	1.0	1.8	2.8	.1						6.1	9.8
NNW	.3	.4	.9	2.3	.2						4.0	10.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	3.2	/
TOTALS	5.5	22.0	40.2	27.0	2.0						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	.5	2.2	1.5	.3						4.9	9.9
NNE		.4	1.0	.3							1.7	8.0
NE	.2	.7	1.0	.6							2.3	8.8
ENE		1.0	.9	.4							2.3	7.9
E	.1	.6	2.2	1.3							4.2	9.0
ESE	.3	1.0	3.8	3.4							9.5	9.1
SE	.2	.9	2.0	3.3							6.5	10.4
SSE		1.0	1.2	1.4	.2						3.9	9.9
S	.1	1.4	4.0	5.6	.5						11.4	10.6
SSW	.1	1.1	2.9	1.7	.1						5.9	9.1
SW		1.2	2.3	3.9	.1						7.3	10.5
WSW		.5	2.7	3.1	.2						6.9	10.4
W	.2	2.2	4.4	2.9	.1						9.8	9.4
WNW	.1	.8	3.8	3.9	.6						8.9	11.1
NW	.1	.5	2.2	4.9	.6						8.4	11.9
NNW	.2	1.0	2.0	2.4	.4						6.0	10.3
VARIABLE											.3	
CALM	/	/	/	/	/	/	/	/	/	/		
TOTALS	1.9	15.6	38.3	40.8	3.1						100.0	10.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 1500-1700

DIRECTION (DF IN DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N		1.7	3.6	1.8	.1						6.7	9.2
NNE	.1	.5	1.3	.2							2.2	7.4
NE	.1	.7	1.1	.5							2.0	8.4
ENE	.1	.7	1.2	.2							2.3	7.2
E	.3	2.3	4.0	1.0							7.5	7.6
ESE	.2	1.6	7.5	2.9							12.3	8.8
SE	.1	1.6	3.8	2.6	.2						8.3	9.2
SSE		.7	1.9	1.7							4.0	10.5
S	.1	.5	2.9	3.3	.6						7.5	10.8
SSW		.7	1.7	1.9							4.0	10.5
SW	.1	1.1	1.6	2.9							5.7	9.9
WSW	.2	1.5	2.4	1.6	.3						6.0	9.1
W	.2	1.5	3.8	2.1	.1						8.7	9.6
NNW	.1	.4	3.2	4.5	.9						9.4	11.3
NW		1.0	1.9	4.2	.4						7.5	11.3
NNW		.4	2.2	2.6							5.2	10.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.9	/
TOTALS	1.7	15.4	44.2	35.2	2.7						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 930

CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
 MONTH: OCT HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	1.4	1.4	.4								3.4	7.1
NNE	.5	.8	.6	.1								2.0	6.1
NE	.5	1.0	.2									1.7	4.8
ENE	.9	1.5	.6	.1								3.0	5.0
E	.5	1.9	1.0	.4								3.9	6.2
ESE	.9	4.5	2.0	.8								8.2	6.3
SE	.9	3.7	3.7	1.0								9.0	6.6
SSE	.2	3.7	2.2	.6	.1							6.8	6.9
S	1.3	3.8	4.4	1.7	.1							11.3	7.2
SSW	.6	1.7	1.7	1.0								4.3	7.9
SW	.5	1.7	2.2	1.2								5.2	7.8
WSW	.2	2.0	1.5	1.2	.2							5.7	7.7
W	.6	4.2	2.7	1.5								9.0	7.1
WNW	.3	2.6	3.0	2.4	.2							8.5	8.6
NW	.1	1.4	3.3	1.6	.1							6.6	9.0
NNW	.1	.9	1.2	.6								2.8	8.0
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/		8.6	/
TOTALS	8.9	35.4	31.7	14.6	.6							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
 MONTH: OCT    HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.9	.9	1.1								2.9	8.4
NNE	.2	1.1	.2	.3								1.8	6.2
NE	.2	.4	.2	.1								1.1	5.1
ENE	.1	.2	.1	.1								.5	7.0
E		.2	.4	.6								1.6	7.9
ESE	.2	1.2	1.7	1.4								4.1	8.3
SE	1.0	2.6	1.2	.5								5.3	6.0
SSE	1.0	4.5	1.8	1.6	.2							8.6	7.2
S	1.6	6.9	3.2	1.5	.1							13.2	6.7
SSW	.3	2.7	2.2	1.7								5.7	7.4
SW	.3	2.4	1.8	.6								5.3	7.2
WSW	.2	2.4	1.6	.9								5.1	7.3
W	.3	5.6	3.0	1.1	.1							10.5	6.7
WNW	.4	4.2	3.3	1.2								9.1	7.4
NW	.9	.9	2.4	1.3	.1							5.5	8.4
NNW		.8	1.0	.6								2.4	8.6
VARIABLE	/	/	/	/	/	/	/	/	/	/	/		
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	17.1	//////
TOTALS	7.5	35.9	25.1	13.9	.5							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										MEAN WIND %
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	
N	.3	.8	1.7	1.0	.1						3.9 8.7
NNE	.2	.7	.7	.2							2.6 6.9
NE	.2	.7	.7	.4							1.9 7.3
ENE	.2	.7	.6	.2							1.7 6.9
E	.2	1.7	1.4	.6							3.3 7.8
ESE	.3	1.7	2.6	1.6	.1	.0					6.3 8.5
SE	.5	1.8	2.1	1.4	.1						5.9 8.5
SSE	.5	2.0	1.6	1.2	.1						5.4 7.8
S	1.0	3.4	3.4	2.5	.2						11.5 7.9
SSW	.6	1.3	2.5	1.1	.3						6.1 7.6
SW	.6	2.1	2.4	1.5	.3						6.7 7.8
WSW	.7	2.4	2.2	1.3	.1						6.6 7.6
W	.3	4.7	3.6	1.6	.1						10.3 7.3
WNW	.4	2.5	3.2	2.3	.3						9.7 8.8
NW	.8	1.1	2.1	2.2	.2						6.0 9.5
NNW	.1	.8	1.1	1.3	.1						3.2 9.7
VARIABLE											
CALM	/	/	/	/	/	/	/	/	/	/	10.6 / / / /
TOTALS	7.1	28.0	32.4	20.6	1.3	.0					100.0 7.2

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726392 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	.9	1.2	.8	.7						3.3	9.6
NNE	.1	.1	.7	.2							1.1	8.5
NE	.1	.1	.3	.4							1.0	9.1
ENE	.1	.1	.6	.7							1.4	9.7
E	.2	.3	.7	.6							1.8	8.2
ESE	.6	.9	1.3	1.3							4.1	8.6
SE	.7	.6	1.0	.4							2.7	6.9
SSE	1.1	1.9	1.2	.9	.1						5.1	6.8
S	1.7	4.0	5.4	1.9	.1						14.0	7.3
SSW	.7	2.4	3.0	1.1	.1						7.3	7.4
SW	.4	2.7	1.6	2.1	.3	.1					7.4	8.8
WSW	.8	2.3	3.0	2.0		.1					8.2	8.1
*	1.1	4.1	4.8	1.4	.3						11.8	7.5
NNW	.3	2.4	4.0	1.2							8.0	7.8
NW	.4	.7	1.7	1.8							4.6	9.4
NNW	.1	.8	1.6	2.1							4.6	9.5
VARIABLE												
CALM	//////////										13.6	//////
TOTALS	8.9	25.0	32.2	18.9	1.3	.2					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 966

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPHEN MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.7	.2	1.9	.4							3.3	11.3
NNE	.2	.3	.6		.1							1.2	7.7
NE	.1	.7	.7	.3								1.8	8.1
ENE		.7	.9									1.2	7.2
E	.2	.1	.6	1.1								2.0	10.8
ESE	.1	.7	1.0	2.0								3.4	10.6
SE	.8	1.7	1.3	.7								4.4	7.2
SSE	.7	2.3	1.9	.9								5.7	7.0
S	1.3	3.7	5.8	1.1	.3							11.9	7.4
SSW	.7	2.9	1.9	.4								5.8	6.5
SW	.9	2.3	2.6	1.4	.1	.1						7.3	7.9
WSW	.4	2.7	3.2	2.4	.2							9.2	8.5
W	1.0	4.1	3.0	1.8	.3							11.1	7.5
WNW	.9	4.4	3.6	1.3								10.2	7.0
NN	.3	1.4	.9	2.7	.1							5.0	9.4
NNW	.3	.7	.8	.9								2.7	8.6
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	13.7	/
TOTALS	7.7	28.9	29.6	18.4	1.7	.1						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	.7	1.4	2.1	.6	.1						4.9	11.0
NNE	.1	.8	.9	.2								1.9	7.4
NE	.6	.7	.3									1.6	8.1
ENE	.2	.6	.6	.1								1.4	6.1
E	.1		1.0	.9	.1							2.1	10.9
ESE	.3	.7	1.1	1.3	.3							3.9	9.5
SE	.3	1.0	1.3	2.1	.1							5.3	9.0
SSE	.9	2.1	1.3	.6	.1							5.0	6.6
S	1.6	3.7	4.4	1.3	.1							11.1	7.3
SSW	1.0	2.7	2.4	.7	.1							6.9	6.8
SW	.2	3.4	1.8	1.6								7.0	7.5
WSW	.9	3.4	3.1	1.4	.2							9.2	7.5
W	1.0	5.1	3.9	1.8								11.8	7.0
WNW	.7	2.9	3.6	1.6								8.7	7.6
NW	.4	1.4	1.4	2.2	.1							5.7	9.3
MNW	.2	.8	.3	.6								1.9	7.9
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	11.7	11.7
TOTALS	8.4	29.9	29.2	18.6	1.9	.1						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-14	15-18	19-22	23-27	28-33	34-40	41-47	48-55	GE 56	
N	.1	.4	1.4	2.4	.2	.2							4.9 11.6
NNE	.1	.2	1.4	.7									2.1 8.7
NE	.1	.7	1.6	.2									2.6 8.0
ENE		.2	.7	.4									1.3 8.9
E		.2	.7	1.2	.1								2.2 10.9
EESE	.1	.7	1.6	1.9									3.8 10.5
SE	.4	1.4	1.6	1.1	.3								4.9 8.9
SSE	.8	.6	1.1	1.4	.1								4.2 8.7
S	.7	5.0	5.1	3.1	.6								12.4 3.8
SSW	.7	2.7	3.6	1.1	.1								7.4 8.0
SW	.9	2.7	4.4	2.0	.3								13.3 8.3
WSW	.3	3.2	2.7	1.9	.4								9.6 8.1
W	.1	3.1	4.1	2.0	.2								9.6 8.3
WNW	.6	2.2	4.1	3.0									9.9 8.9
NW		2.0	2.0	1.6	.1								5.7 8.7
NNW	.2	.6	1.8	1.7	.4	.1							5.1 10.4
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/		4.0 //
TOTALS	4.9	23.7	38.8	25.4	3.0	.3							100.0 8.5

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726392 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: NOV HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-5	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	.6	2.0	2.9	.4						6.1	11.1
NNE	.1	.7	.9	.3							1.7	8.4
NE	.2	.7	1.7	.6							2.8	8.6
ENE		.7	1.0	.4							1.8	8.4
E		.6	2.3	1.7							4.6	9.5
ESE	.1	.4	2.2	1.6							4.4	9.6
SE	.2	.6	1.2	2.0							4.2	10.0
SSE	.2	.4	1.0	1.2	.7	.1					4.6	10.7
S	.8	1.9	5.1	3.8	.1	.1					11.8	9.3
SSW	.1	1.7	2.4	2.1	.1	.2					6.3	10.1
SW		1.4	3.1	3.3	.4						8.3	10.4
WSW	.1	2.0	2.9	3.8	.7						9.4	10.5
W	.1	1.6	5.0	2.7	.1						10.8	9.5
NNW	.2	1.1	4.4	4.1	.1						10.0	10.0
NW		.9	2.4	3.7	.3						6.9	11.2
NN		.2	2.0	3.2	.2						5.7	11.4
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	.7	/
TOTALS	2.4	14.2	40.7	38.3	3.2	.4					100.0	10.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MT

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-5	6-10	11-15	16-20	21-25	26-30	31-40	41-47	48-55	GE 56			
N	.4	1.3	2.6	2.4	.2						7.0	9.3	
MNF		.6	1.1	.3	.1	.1					2.2	9.3	
NE	.2	.8	1.2	.4							2.7	7.4	
ENE	.2	.7	1.3	.3							2.6	7.9	
E	.2	1.6	1.8	1.3							4.9	8.0	
ESE	.3	1.2	3.3	.8	.1						5.6	8.2	
SE	.1	1.7	2.4	1.8	.1						6.1	8.9	
SSE		.8	2.2	1.4	.1						4.6	9.6	
S	.3	3.6	3.0	3.2							10.1	8.3	
SSW	.1	.9	2.1	1.9	.3	.1					5.4	10.3	
SW	.6	1.9	2.1	1.9	.1						6.4	8.1	
WSW	.2	2.2	3.1	3.7	.2						9.4	9.7	
W	.5	2.1	3.9	3.0	.2						9.8	8.8	
NNW	.1	2.4	3.8	3.3	.1						9.8	9.2	
NW		.9	2.8	3.7	.4						7.8	11.0	
NNW		.8	1.3	2.1	.2						4.4	11.2	
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	1.0	/	
TOTALS	3.4	23.3	38.1	31.6	2.3	.2					100.0	9.1	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							GE 56	TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33			
N	.1	1.1	1.0	1.0	.2				4.2	9.5
NNE	.3	.4	.6	1.0					2.3	8.9
NE	.1	.4	1.3	.3					2.2	8.3
ENE		1.7	1.7						3.3	6.8
E	.1	1.1	.9	.6					2.7	8.0
ESE	.2	.4	.9	.5					2.9	8.3
SE	.6	2.9	2.0	1.9	.1				7.4	7.9
SSC	.9	3.4	1.9	.9					7.0	6.8
S	1.1	6.8	5.0	1.0	.1				14.0	6.7
SSW	.2	1.7	1.7	1.7	.1	.1			5.4	9.0
SW	.3	1.7	1.7	2.1					5.4	9.1
WSW	.6	2.7	1.7	2.7					7.2	8.4
W	.3	4.2	2.4	1.0					8.0	6.9
NNW	.7	2.6	2.4	2.6	.2				8.9	8.3
NW		1.0	3.1	1.8	.2				6.9	9.0
NNW	.1	.7	.7	1.7	.6	.1			3.9	12.0
VARIABLE										
CALM	//								8.2	////
TOTALS	5.6	33.3	29.9	21.2	1.6	.2			100.0	7.4

TOTAL NUMBER OF OBSERVATIONS: 700

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.4	.7	1.6	1.9	.1							4.2	10.2
NNE		.6	.2	.8								1.6	9.7
NE		.4	1.0	.3								1.8	8.3
ENE	.1	.9	1.1	.6								2.7	8.2
E	.1	.2	1.7	.6								2.6	9.1
EE	.6	.7	.9	.6								2.7	7.2
SE	.2	.7	1.1	.9	.1							3.2	8.4
SSE	1.0	2.4	1.7	1.4								6.6	7.0
S	1.3	5.4	4.8	2.8	.1							14.4	7.5
SSW	1.0	2.4	2.7	1.3	.2							7.7	7.9
SW	.6	2.7	3.1	2.0	.2							8.6	8.3
WSW	1.1	1.7	3.1	1.6								7.1	7.8
W	1.0	4.6	2.4	.9								8.9	6.5
WNW	.6	2.1	3.4	1.4	.1							7.7	8.0
NN	.3	1.4	3.2	1.3	.2							6.6	8.6
NNW		.4	1.0	1.9	.3							3.7	11.2
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/		10.2	/
TOTALS	9.3	26.0	33.0	20.2	1.4							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSLS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.2	.7	1.4	2.0	.3	.0					4.7	10.4
NNE	.1	.4	.8	.4	.0	.0					1.8	8.6
NE	.1	.2	1.1	.4							2.0	8.2
ENE	.1	.6	1.0	.7							2.0	7.8
E	.1	.5	1.2	1.0	.0						2.8	9.2
ESE	.3	.7	1.5	1.3	.1						3.9	9.1
SE	.4	1.4	1.5	1.4	.1						4.8	8.5
SSE	.7	1.0	1.6	1.1	.1	.0					5.3	7.7
S	1.1	4.1	4.8	2.3	.2	.0					12.5	7.8
SSW	.5	2.1	2.5	1.5	.1	.1					6.5	8.2
SW	.5	2.3	2.6	2.0	.2	.0					7.6	8.6
WSW	.6	2.5	3.0	2.4	.2	.0					8.7	8.6
W	.7	3.7	3.8	1.9	.2						10.2	7.8
WNW	.5	2.4	3.8	2.2	.1						9.1	8.4
NW	.2	1.3	2.2	2.3	.2						6.1	9.7
NNW	.1	.7	1.2	1.8	.2	.0					4.0	10.5
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	7.9	/
TOTALS	6.2	25.6	33.9	24.1	2.1	.2					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAR

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS							TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33		
N	.3	.3	.6	.9	.2			2.4	9.9
NNE	.3	.4	.3	.3				1.4	7.2
NE	.2	.6	1.0	.3				2.2	7.6
ENE	.3	.2	.5	.2				1.3	7.5
E	.1	.7	.2	.2				1.4	9.2
ESE	.2	1.0	.4	.4				2.5	7.7
SE	.5	1.1	1.4	1.3				4.4	8.0
SSE	1.0	1.2	1.5	1.3	.1			5.1	7.6
S	1.5	4.7	4.9	2.7	.1			14.0	7.6
SSW	.3	2.4	3.4	1.0				7.2	7.6
SW	.4	4.2	4.5	2.0	.1			11.6	7.6
WSW	.6	3.8	4.7	2.9	.2			13.5	7.6
W	.8	3.7	4.5	1.6	.5	.2		11.3	8.3
MNW	.2	2.2	2.9	2.6	.2			8.1	8.9
NW	.4	1.2	1.0	2.6	.1			6.2	9.6
NNW	.1	.5	.8	1.0	.1			2.2	9.3
VARIABLE									
CALM	/	/	/	/	/	/	/	5.4	/
TOTALS	7.8	29.6	33.5	21.7	1.7	.7		100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/RAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0300-0500

DIRECTION IN DEGREES	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.9	.2	.8	.6	.1							2.6	7.9
NNE	.1	.7	.6	.2	.1							1.4	8.6
NE	.2	.8	.6	.1								1.7	6.4
ENL	.1	.1	.9	.1								1.2	8.5
E	.1	.4	.2	1.2								1.9	9.4
ESE	.3	1.0	.4	1.9								3.7	9.1
SE	.5	1.1	1.3	.5								3.4	7.0
SSE	.6	2.7	1.6	1.7								6.2	7.2
S	.4	3.4	4.6	3.1	.1							11.7	8.2
SSW	.5	2.7	2.8	1.5								8.5	7.5
SW	1.1	4.4	2.1	2.6								11.6	7.4
WSW	1.0	4.5	4.6	1.7	.1							11.9	7.3
W	.6	3.1	5.8	2.0	.7	.1						12.0	8.4
WNW	.2	2.4	2.8	2.6								8.7	8.6
NW	.2	.8	1.7	1.9	.3							4.6	10.5
NNW	.1	.6	.5	1.7								3.0	9.8
VARIABLE													
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.7	//////	
TOTALS	7.6	28.6	53.4	23.4	1.1	.1					100.0	7.6	

TOTAL NUMBER OF OBSERVATIONS: 930

**GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC**

**PLACEMENT FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0600-0600

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.2	.2	.4	1.1	.2							7.3	11.4
ANE	.1	.8	.9	.2								1.9	7.6
NE	.1	.1	.9	.1								1.1	8.2
FNE		.1	.3	.2								.6	9.7
E	.1	.1	.4	1.6								2.3	10.9
FSE		.8	1.2	1.7								3.7	10.0
SE	.3	1.5	1.6	.6	.1							4.2	7.5
SSE	.5	2.6	1.4	.9								5.4	7.1
S	.9	4.6	5.9	3.4	.1							14.3	8.0
SSW	.8	2.4	3.7	.6								7.5	7.0
SW	.4	4.6	4.6	1.2								11.5	7.6
WSW	1.0	3.7	3.2	1.7								9.2	7.3
-	1.1	4.6	6.1	1.2	.1							13.1	7.3
WNW	.9	2.4	3.2	1.7	.2							8.1	8.4
NN	.2	.8	1.6	1.5	.4							4.6	10.0
NNW	.2	.2	.9	2.0								3.4	10.8
VARIABLE													
CALM												6.8	
TOTALS	6.7	28.6	36.2	20.5	1.3							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 936

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	.9	1.0	1.1	.2	.1					3.7	9.3
NNE	.1	.4	.8	.2	.1						1.6	8.5
NE	.2	.1	.2	.1	.1						.8	8.4
ENE	.1	.2	.5	.4							1.4	9.2
E	.2	.2	.6	1.4							2.5	10.3
ESE	.2	.2	.6	1.0	.1						2.8	11.1
SE	.2	.6	.9	1.3							3.5	9.6
SSE	.3	2.2	1.8	1.1							5.4	7.8
S	.5	4.1	5.2	3.3	.1						13.2	8.2
SSW	.5	1.7	4.3	2.3							8.8	8.5
SW	.4	1.7	5.5	2.4	.1						10.1	8.6
WSW	.5	3.7	4.8	2.6	.2						11.8	8.2
W	1.0	3.1	5.0	2.3							12.3	7.8
WNW	.3	1.7	4.3	2.6	.2						9.0	8.9
NW	.2	1.2	1.6	1.9	.1						5.2	9.6
NNW	.2	.4	.9	1.8	.5						3.9	11.6
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	4.1	/
TOTALS	5.6	22.9	38.9	26.6	1.8	.1					100.0	8.4

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N	.1	1.2	1.2	1.8	.3	.1						4.7	10.8
NNE	.1	.7	.8									1.2	6.3
NE		.2		1.2								1.5	11.3
ENE		.7	.5	.6	.1							1.6	10.2
E	.4	.3	1.4									2.2	10.8
ESE	.1	.4	.6	1.0	.3							3.4	11.9
SE	.2	.6	.9	2.2								3.9	10.4
SSE	.3	1.1	1.7	.6								3.9	8.1
S	2.0	5.2	3.8	.3								11.3	9.6
SSW		.8	3.0	2.4								6.1	9.8
SW	.2	1.4	4.3	4.4	.2							10.5	10.0
WSW	.1	2.2	5.6	5.1	.6							13.5	10.3
W	.2	2.6	4.9	5.5	.2							13.4	9.6
WNW	.1	.9	5.7	2.6	.3							9.6	9.8
NW	.2	.6	3.1	2.4	.6							7.0	10.6
NNW	.3	.8	1.9	1.9	.2	.1						5.3	10.2
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	.9	/
TOTALS	2.0	15.9	39.8	37.8	3.3	.2						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	1.2	2.3	1.4			.2				5.4	9.2
NNE	.2	.3	.4	.4							1.4	8.5
NE	.3	.4	.4	.5							1.3	10.4
ENE	.1	.4	.6	.1	.1						1.4	8.1
E	.2	.6	.5	1.4							2.8	9.4
ESE	.2	.6	.9	1.2	.1						3.0	9.9
SE	.1	.6	1.7	1.6	.1						4.2	9.8
SSE	.5	1.4	1.5	1.5							4.9	7.8
S	.8	2.2	4.0	2.5	.1						10.4	8.5
SSW	.1	1.3	2.5	1.4							5.3	9.1
SW	.4	1.0	3.5	3.3	.4						8.7	10.0
WSW	.5	2.0	4.7	3.9	.3						11.5	9.4
W	.3	3.9	6.2	4.7							15.2	9.0
WNW	.1	2.6	5.4	2.9	.2						11.2	8.9
NW	.4	1.7	2.6	2.2	.6	.1					7.2	10.1
NNW	.1	.9	1.5	2.2		.1					4.7	10.1
VARIABLE												
CALM	/	/	/	/	/	/	/	/	/	/	1.4	/
TOTALS	4.5	20.6	39.8	31.2	2.0	.4					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS								TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-14	15-21	22-27	28-33	34-40		
N	.9	1.4	.8	.8					3.7	6.7
NNE	.4	.5	.1	.2					1.3	6.2
NE		.2	.8	.5					1.5	10.5
ENE	.2	.5	.2	.2					1.2	6.3
E	.2	.2	.9	.4					2.0	7.8
ESE	.2	.4	1.2	.9					2.7	9.3
SE	.3	1.6	1.3	1.4					4.6	8.3
SSE	.4	2.7	2.8	.9					6.1	7.5
S	1.2	3.6	5.1	1.6	.2				11.8	7.4
SSW	.4	1.9	2.6	1.1					7.0	7.4
SW	.2	2.4	4.1	2.8	.3				9.8	9.0
WSW	.9	3.0	4.4	2.4	.3				11.0	8.4
W	.9	5.1	5.2	1.2	.1				12.4	7.0
WNW	1.0	3.7	3.7	1.6	.2				10.1	7.4
NW	.6	1.6	2.0	2.4	.6				7.3	9.7
NNW	.2	.4	.9	1.0					2.5	9.4
VARIABLE										
CALM	/	/	/	/	/	/	/	/	5.1	/
TOTALS	8.0	30.1	35.6	19.2	1.8				100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	.6	1.2	.8							2.9	8.3
NNE	.5	.7	.3	.4							1.3	7.8
NE	.1	.4	.6	.3	.1						1.6	8.4
ENE	.1	.3	.6	.2							1.2	7.8
E	.1	.1	.5	.5							1.6	10.3
ESE	.2	.5	.8	1.4							2.9	9.7
SE	.4	.2	1.7	.9							3.2	8.4
SSE	.9	2.7	1.7	.6							5.9	6.5
S	.8	3.5	6.3	1.4							12.6	7.6
SSW	.2	1.9	4.0	1.7	.1						8.9	8.0
SW	.2	3.1	4.9	2.5	.1	.1					10.8	8.5
WSW	.5	4.0	4.5	2.7	.1						11.8	8.0
W	.9	6.1	3.5	1.3	.1						11.8	6.9
WNW	.5	2.7	3.3	1.6	.3						9.5	8.3
NW	.2	1.2	1.8	2.6	.4						6.2	10.2
NNW	.2	.1	.9	1.2		.1					2.5	10.6
VARIABLE												
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	6.2	//////
TOTALS	5.9	26.7	36.9	20.8	1.3	.2					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 630

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	.7	1.0	1.0	.1	.1					3.4	9.2
NNE	.2	.4	.5	.5	.0						1.4	7.6
NE	.1	.4	.6	.4	.0						1.5	8.8
ENE	.1	.2	.5	.3	.0						1.2	8.4
E	.1	.2	.5	1.1							2.1	9.8
ESE	.2	.6	.8	1.4	.1						3.1	9.9
SE	.3	1.0	1.3	1.3	.0						3.9	8.6
SSE	.6	2.0	1.8	1.0	.0						5.4	7.9
S	.9	3.5	5.3	2.9	.1						12.4	8.1
SSW	.4	2.2	3.4	1.5	.0						7.4	8.0
SW	.5	2.9	4.3	2.7	.2	.2					10.6	8.5
WSW	.6	3.5	4.6	2.8	.2						11.8	8.3
W	.7	4.0	5.3	2.1	.2	.2					12.7	8.1
WNW	.9	2.3	3.9	2.3	.2						9.2	8.6
NW	.5	1.1	2.1	2.2	.4	.2					6.0	10.0
NNW	.2	.6	1.0	1.6	.1	.0					3.4	10.3
VARIABLE											4.4	11.1
CALM												
TOTALS	6.0	25.7	36.8	25.2	1.8	.2					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

S T A T I O N   N U M B E R : 7 2 6 3 9 3   S T A T I O N   N A M E : A L P E N A   M I

PERIOD OF RECORD: 77-81  
MONTH: ALL HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-14	15-18	19-22	23-26	27-30	31-34	35-38	39-42		
N	.4	1.2	2.3	2.1	.2	.3	.0					6.2	9.4
NNE	.3	.8	1.0	.6	.0	.7	.8					2.7	8.0
NE	.2	.9	1.0	.5	.0							2.5	7.7
ENE	.2	.6	.9	.4	.0							2.1	7.8
E	.2	.7	1.7	1.0	.0	.3	.3					3.9	8.6
FSE	.3	1.7	2.6	1.5	.1	.0						5.8	8.7
SE	.5	1.7	2.1	1.2	.0	.0	.0					5.5	7.9
SSE	.7	1.9	1.5	.8	.1	.0						4.9	7.1
S	1.0	3.1	3.6	1.8	.1	.0						9.7	7.6
SSW	.4	1.6	2.0	1.0	.0	.0						5.1	7.7
SW	.5	1.9	2.2	1.2	.1	.0						6.0	7.9
WSW	.0	2.4	2.4	1.3	.1	.0						6.9	7.7
W	.8	3.0	3.6	1.7	.1	.0						10.0	7.5
WNW	.5	2.1	3.4	2.4	.2	.0						9.0	8.7
NW	.3	1.4	2.3	2.4	.3	.0						6.8	9.8
NNW	.2	.7	1.4	1.8	.2	.0	.0					4.5	10.2
VARIABLE													
CALM	/	/	/	/	/	/	/	/	/	/	/	8.5	/
TOTALS	7.1	26.7	34.0	21.7	1.7	.2	.0					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS: 87643

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(LST): ALL

CEILINGS 200 TO 1400 FEET WITH VISIBILITIES 1/2 MILE OR MORE  
AND/OR  
CEILINGS 200 FEET OR MORE WITH VISIBILITIES 1/2 TO 2-1/2 MILES

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.4	1.6	2.7	3.3	.3	.1	.0				3.4	9.9
NNE	.2	1.4	2.0	1.2	.1						4.5	8.8
NE	.2	1.3	2.1	1.2	.1						4.9	8.5
ENE	.2	1.2	2.0	1.0	.0						4.4	8.4
E	.3	1.4	2.7	2.0	.1						6.5	9.0
ESE	.3	2.0	3.2	1.9	.1	.0					7.5	8.7
SE	.5	2.0	2.7	2.0	.2						7.4	8.6
SSE	.6	2.0	2.0	1.3	.1	.0					6.0	8.0
S	.6	2.7	3.6	1.7	.1	.0					8.7	7.9
SSW	.3	1.2	1.3	.3	.0	.0					3.2	7.0
SW	.3	1.3	.9	.3	.0						2.8	6.8
WSW	.4	1.4	1.0	.4	.0						3.3	6.8
W	.5	2.3	2.4	1.1	.1	.0					6.5	7.7
NNW	.3	1.6	3.4	2.0	.3	.0					7.6	9.2
NW	.2	1.1	2.6	3.0	.5	.1					7.5	10.5
NNW	.2	.6	1.7	2.7	.3	.1	.0				5.9	10.7
VARIABLE												
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.0	//////
TOTALS	5.6	24.7	36.3	25.6	2.4	.3	.0				100.0	8.3

TOTAL NUMBER OF OBSERVATIONS: 14501

PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	DDDDDDDD
PPPPPPPP	AAAAAA	R P P R R R R	TTTTTTTT	DDDDDDDD
PP PP	AA AA	RR RR	TT	DD DD
PPPPPPPP	AA AA	R R R R R R R R	TT	DD DD
PPPPPPPP	AAAABAAA	R R R R R R R R	TT	DD DD
PP	AAA B A A A A	RR RR	TT	DD DD
PP	AA AA	RP RP	TT	DD DD
PP	AA AA	RR RP	TT	DDDDDDDD
PP	AA AA	RR RR	TT	DDDDDDDD

### CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

#### CEILING VERSUS VISIBILITY SUMMARY

THIS SUMMARY IS A BIVARIATE FREQUENCY DISTRIBUTION BY CLASSES OF CEILING FROM "0" THROUGH EQUAL TO OR GREATER THAN 20,000 FEET AND AS A SEPARATE CLASS "NO CEILING", VERSUS VISIBILITY IN 16 CLASSES FROM ZERO THROUGH EQUAL TO OR GREATER THAN 10 MILES.

DATA DERIVED FROM HOURLY OBSERVATIONS.

FREQUENCY DISTRIBUTION PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

#### NOTES:

BEGINNING IN 1968, METAR STATIONS REPORTED VISIBILITIES TO 6 MILES AND GREATER THAN 6 MILES. THEREFORE THE COLUMN FOR VISIBILITIES EQUAL TO OR GREATER THAN 10 MILES APPEAR BLANK.

AS A RULE, AIRWAYS STATIONS NORMALLY REPORT VISIBILITIES TO 6 MILES AND 7 OR GREATER. HOWEVER SOME STATIONS REPORT HIGHER VALUES. THEREFORE, THE 10 MILE VISIBILITY COLUMN SOMETIMES CONTAIN SMALL PERCENTAGE VALUES. HOWEVER, THESE VALUES ARE OF LITTLE MEANING AND SHOULD BE DISREGARDED.

FOR METAR CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS ABOVE 5000 FEET WERE SUPPRESSED TO 5000 FEET. THEREFORE, NO PERCENT VALUES APPEAR ABOVE 5000 FEET.

#### SKY COVER SUMMARY

PRESENTS PERCENTAGES OF SKY COVER IN EITHER 10THS OF COVERAGE OR "AIRWAYS CLASSIFICATIONS".

DATA SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ALSO PRESENTED ARE MEAN SKY COVERS.

FOR AIRWAY STATIONS, THE CONVERSION FROM THE AIRWAYS DESIGNATIONS TO 10THS FOR PRESENTATION ARE:

CLEAR	-	0/10
SCATTERED	-	3/10
BROKEN	-	4/10
OVERCAST	-	10/10
OBSCURED	-	10/10

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOUMLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALMERA MI

PERIOD OF RECORD: 76-87  
MONTH: JAN HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10 6	GE 5	GE 4	GL 3	GE 2	GE 1 1/2	GE 2	GF 1 1/2	GE 1 1/4	GE 1	GE 3/4	GL 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL   22.3	31.1	31.3	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	
GE 20000   23.3	32.5	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	
GE 18000   23.4	32.6	32.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	
GE 16000   23.4	32.6	32.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	
GE 14000   23.4	32.6	32.8	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	
GE 12000   24.3	33.4	33.7	33.9	33.9	33.9	33.9	33.9	33.9	33.9	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	
GE 10000   24.8	34.1	34.3	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	
GE 9000   24.8	34.2	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	
GE 8000   25.6	35.2	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	
GE 7000   26.0	35.7	36.2	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	
GE 6000   26.2	35.9	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	
GE 5000   26.9	36.7	37.2	37.7	37.7	37.7	37.7	37.7	37.7	37.7	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	
GE 4500   27.8	37.7	38.4	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	
GE 4000   28.2	38.2	38.8	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	
GE 3500   29.1	40.1	41.6	41.8	42.0	42.0	42.0	42.0	42.0	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	
GE 3000   31.1	43.3	44.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	
GE 2500   36.7	51.6	53.1	54.3	55.2	55.3	55.6	55.6	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	
GE 2000   41.6	61.4	63.9	65.3	67.6	68.1	68.8	69.2	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	
GE 1800   43.4	64.8	67.3	68.9	71.6	72.3	73.1	73.7	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	
GE 1500   45.8	69.9	73.0	74.8	78.2	76.6	80.0	81.2	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	
GE 1200   46.9	71.8	75.1	77.1	80.6	81.2	82.6	83.7	84.1	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	
GE 1000   47.0	73.3	77.1	79.2	83.2	83.6	85.6	86.7	87.5	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	
GE 900   47.1	73.5	77.4	79.6	83.9	84.6	86.5	87.7	88.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	
GE 800   47.1	73.7	77.5	79.9	84.2	85.4	87.2	88.9	89.8	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	
GE 700   47.2	74.0	78	80.5	84.8	86.1	88.0	89.9	90.8	91.9	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
GE 600   47.3	74.2	78.3	81.1	85.4	86.7	89.0	91.0	91.8	93.4	94.0	94.1	94.2	94.8	95.1	95.1	95.1	95.1	
GE 500   47.3	74.3	78.4	81.4	85.7	87.0	89.4	91.3	92.4	94.6	95.9	96.0	96.2	97.0	97.2	97.2	97.2	97.2	
GE 400   47.3	74.4	78.5	81.6	86.1	87.4	89.8	91.8	92.9	95.2	96.9	97.1	97.4	98.2	98.4	98.4	98.4	98.4	
GE 300   47.3	74.4	78.5	81.7	86.2	87.5	89.9	92.2	93.2	95.5	97.4	97.6	98.2	98.9	99.1	99.1	99.1	99.1	
GE 200   47.3	74.4	78.5	81.7	86.2	87.5	90.0	92.3	93.3	95.7	97.7	98.0	98.5	99.2	99.5	99.5	99.5	99.5	
GE 100   47.3	74.4	78.5	81.7	86.2	87.5	90.0	92.3	93.3	95.7	97.7	98.0	98.5	99.2	99.6	99.6	99.6	99.6	
GE 0   47.3	74.4	78.5	81.7	86.2	87.5	90.0	92.3	93.3	95.7	97.7	98.0	98.5	99.2	99.6	100.0			

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFAIRAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87

MONTH: JAN HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1 1F	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1	GE 3/4	GE 1/2	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL 1	20.1	27.2	27.6	27.7	28.0	28.0	28.1	28.1	28.3	28.5	28.6	28.6	28.6	28.6	28.6	28.6
GE 200001	21.0	28.3	28.7	28.8	29.0	29.0	29.2	29.2	29.5	29.7	29.8	29.8	29.8	29.8	29.8	29.8
GE 180001	21.1	28.4	28.6	28.9	29.1	29.1	29.4	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9
GE 160001	21.1	28.4	28.6	28.9	29.1	29.1	29.4	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9
GE 140001	21.1	28.4	28.6	28.9	29.1	29.1	29.4	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9
GE 120001	22.3	29.6	30.2	30.3	30.5	30.5	30.8	30.9	31.1	31.3	31.4	31.4	31.4	31.4	31.4	31.4
GE 100001	22.4	29.9	30.3	30.4	30.6	30.6	30.9	31.0	31.2	31.4	31.5	31.5	31.5	31.5	31.5	31.5
GE 90001	22.7	30.0	30.4	30.5	30.6	30.8	31.0	31.1	31.3	31.5	31.6	31.6	31.6	31.6	31.6	31.6
GE 80001	22.9	30.9	31.3	31.4	31.6	31.6	31.8	31.9	32.2	32.4	32.5	32.5	32.5	32.5	32.5	32.5
GE 70001	23.3	31.7	32.3	32.4	32.6	32.6	32.8	32.9	33.1	33.3	33.4	33.4	33.4	33.4	33.4	33.4
GE 60001	23.4	32.0	32.6	32.7	32.9	32.9	33.1	33.2	33.4	33.7	33.8	33.8	33.8	33.8	33.8	33.8
GE 50001	24.6	33.4	34.1	34.3	34.5	34.5	34.7	34.8	35.1	35.3	35.4	35.4	35.4	35.4	35.4	35.4
GE 45001	25.4	34.5	35.2	35.4	35.6	35.6	35.8	35.9	36.1	36.3	36.5	36.5	36.5	36.5	36.5	36.5
GE 40001	25.9	35.5	36.1	36.3	36.6	36.6	36.8	36.9	37.1	37.3	37.4	37.4	37.4	37.4	37.4	37.4
GE 35001	26.7	37.2	37.8	38.1	38.3	38.3	38.5	38.6	38.8	39.0	39.1	39.1	39.1	39.1	39.1	39.1
GE 30001	28.2	39.7	40.4	40.6	40.9	41.0	41.2	41.3	41.5	41.7	41.8	41.8	41.8	41.8	41.8	41.8
GL 250001	34.0	48.5	49.6	50.3	51.1	51.2	51.4	51.5	51.7	51.9	52.0	52.0	52.0	52.0	52.0	52.0
GE 200001	39.1	58.9	61.0	62.6	63.9	64.3	65.2	65.3	65.5	65.7	65.9	65.9	66.1	66.1	66.2	66.2
GE 1F0001	42.4	62.2	64.3	66.1	67.7	68.3	69.4	69.5	69.7	69.9	70.2	70.2	70.4	70.4	70.5	70.5
GE 150001	43.7	68.0	70.2	72.6	75.1	75.7	77.4	77.7	78.0	78.3	78.6	78.6	78.9	78.9	79.0	79.0
GE 120001	44.9	71.0	73.8	76.2	79.0	79.7	81.7	82.3	82.7	83.0	83.5	83.5	84.0	84.0	84.1	84.1
GE 100001	45.3	72.6	75.7	78.2	81.5	82.3	84.5	85.2	85.6	86.1	86.8	87.3	87.3	87.4	87.4	87.4
GE 90001	45.7	73.7	76.9	79.4	82.6	83.5	85.8	86.9	87.4	88.0	88.7	88.7	89.2	89.4	89.4	89.4
GE 80001	45.7	74.5	77.7	80.3	83.9	84.6	87.3	88.5	89.0	90.1	90.9	90.9	91.4	91.4	91.5	91.5
GE 70001	45.8	74.6	78.1	80.6	84.2	85.3	87.6	89.0	89.6	90.6	91.4	91.4	91.9	91.9	92.0	92.0
GE 60001	46.0	75.2	78.4	81.2	84.9	86.3	88.9	90.6	91.2	92.6	94.0	94.0	94.5	94.6	94.7	94.7
GE 40001	46.0	75.4	78.6	81.5	85.7	87.3	89.4	91.3	91.8	93.9	95.9	95.9	96.5	96.6	96.7	96.7
GE 40001	46.0	75.4	78.6	81.5	85.5	86.9	89.6	91.7	92.3	94.4	96.6	96.7	97.2	97.5	97.7	97.7
GE 30001	46.0	75.4	78.6	81.5	85.7	87.1	89.9	92.0	92.6	94.7	97.0	97.1	97.7	98.1	98.3	98.3
GE 20001	46.0	75.4	78.6	81.5	85.7	87.3	90.1	92.3	92.9	95.2	97.5	97.6	98.9	99.2	99.7	99.7
GE 10001	46.0	75.4	78.6	81.5	85.7	87.3	90.1	92.3	92.9	95.2	97.5	97.6	98.9	99.4	99.8	100.0
GE 01 46.0	75.4	78.6	81.5	85.7	87.3	90.1	92.3	92.9	95.2	97.5	97.6	98.9	99.4	99.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0600-0800

CEILING IN FELT	VISIBILITY IN STATUTE MILES																	
	GE 1 1/2	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0			
NC CEIL	17.7	24.0	24.6	24.6	25.1	25.3	25.4	25.5	25.7	25.8	26.0	26.0	26.0	26.0	26.1	26.1	26.1	26.1
GE 20000	19.6	25.1	25.7	25.9	26.1	26.3	26.5	26.7	26.9	27.0	27.2	27.2	27.2	27.3	27.3	27.3	27.3	27.3
GE 18000	18.9	25.4	26.0	26.2	26.5	26.7	26.8	27.0	27.2	27.3	27.5	27.5	27.5	27.5	27.6	27.6	27.6	27.6
GE 16000	18.9	25.4	26.0	26.2	26.5	26.7	26.8	27.0	27.2	27.3	27.5	27.5	27.5	27.5	27.6	27.6	27.6	27.6
GE 14000	19.0	25.5	26.1	26.3	26.6	26.8	26.9	27.1	27.3	27.4	27.6	27.6	27.6	27.6	27.7	27.7	27.7	27.7
GE 12000	19.4	25.8	27.5	26.7	26.9	27.1	27.2	27.4	27.6	27.7	28.0	28.0	28.0	28.0	28.1	28.1	28.1	28.1
GE 10000	20.0	26.5	27.1	27.3	27.5	27.7	27.8	28.2	28.4	28.5	28.7	28.7	28.7	28.7	28.8	28.8	28.8	28.8
GE 9000	20.2	26.7	27.3	27.5	27.7	28.0	28.1	28.4	28.6	28.7	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0
GE 8000	21.4	28.8	29.5	29.7	29.9	30.1	30.2	30.5	30.8	30.9	31.1	31.1	31.1	31.1	31.2	31.2	31.2	31.2
GE 7000	21.9	29.6	30.4	30.6	30.9	31.1	31.2	31.5	31.7	31.8	32.0	32.0	32.0	32.0	32.2	32.2	32.2	32.2
GE 6000	22.2	30.1	30.8	31.0	31.2	31.4	31.5	31.8	32.0	32.2	32.4	32.4	32.4	32.4	32.5	32.5	32.5	32.5
GE 5000	22.8	31.2	32.0	32.3	32.6	32.8	32.9	33.2	33.4	33.5	33.8	33.8	33.8	33.8	33.9	33.9	33.9	33.9
GE 4500	23.3	32.3	33.2	33.4	33.8	34.0	34.1	34.4	34.6	34.7	34.9	34.9	34.9	34.9	35.1	35.1	35.1	35.1
GE 4000	23.4	32.4	33.0	34.0	34.3	34.5	34.6	35.1	35.3	35.4	35.6	35.6	35.6	35.6	35.7	35.7	35.7	35.7
GE 3500	24.9	35.1	36.6	37.1	37.4	37.6	37.7	38.2	38.4	38.5	38.7	38.7	38.7	38.7	38.8	38.8	38.8	38.8
GE 3000	26.3	37.2	38.6	39.6	39.9	40.2	40.3	40.8	41.0	41.1	41.3	41.3	41.3	41.3	41.4	41.4	41.4	41.4
GE 2500	30.6	44.4	46.5	47.7	48.3	48.6	48.8	49.6	49.8	49.9	50.3	50.3	50.3	50.3	50.4	50.4	50.4	50.4
GE 2000	35.2	52.2	54.7	56.6	57.8	58.8	59.7	60.4	60.8	61.0	61.5	61.5	61.5	61.5	61.6	61.6	61.6	61.6
GE 1800	37.2	56.2	59.1	61.3	62.9	63.9	65.1	66.2	66.6	67.0	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6
GE 1500	39.8	61.5	65.2	67.4	69.2	70.9	72.5	73.6	74.1	74.8	75.8	75.8	75.8	75.8	76.0	76.0	76.0	76.0
GE 1200	42.2	66.5	73.4	73.0	75.4	77.2	79.0	80.3	80.9	81.6	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8
GE 1000	42.9	68.9	73.2	76.0	78.6	80.6	82.7	84.0	84.7	85.8	87.0	87.0	87.1	87.1	87.2	87.2	87.2	87.2
GE 900	43.2	70.4	74.8	77.7	80.3	82.4	84.4	85.7	86.5	87.6	88.8	88.8	88.9	88.9	89.0	89.0	89.0	89.0
GE 800	43.4	71.0	75.6	78.6	81.4	83.5	85.6	86.9	87.6	89.0	90.2	90.2	90.3	90.3	90.4	90.4	90.4	90.4
GE 700	43.4	71.1	75.7	78.8	81.6	83.9	85.9	87.4	88.2	89.7	91.1	91.2	91.3	91.4	91.5	91.5	91.5	91.5
GE 600	43.5	71.4	76.2	79.4	82.2	84.4	86.6	88.1	89.9	90.5	92.3	92.4	92.5	92.6	92.7	92.7	92.7	92.7
GE 500	43.5	71.4	76.2	79.5	82.5	84.7	87.0	88.6	89.7	91.4	94.0	94.5	94.6	94.8	94.9	94.9	94.9	94.9
GE 400	43.5	71.5	76.3	79.6	82.7	84.9	87.4	89.1	90.2	91.9	94.5	95.1	95.2	95.8	95.9	95.9	95.9	95.9
GE 300	43.5	71.5	76.3	79.6	82.8	85.3	87.7	89.7	90.8	92.6	95.3	95.8	95.9	96.6	96.9	97.1		
GE 200	43.5	71.5	76.3	79.6	82.8	85.4	88.0	89.9	91.1	93.1	96.2	96.9	97.3	98.1	98.5	98.9		
GE 100	43.5	71.5	76.3	79.6	92.4	95.4	98.0	99.0	99.2	99.4	99.8	99.8	99.8	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87  
MONTH: JAN HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES																		
	1	10	6	GE	GF	GE	UE	GE	GF	GE	GE	GE	GE	GL	GE	GE	SE	GE	
	1	10	6	5	4	3	2	1 1/2	2	1	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0
NO CEIL	1	21.2	26.2	27.1	27.5	27.8	28.3	28.5	29.0	29.1	29.8	29.9	29.9	30.0	30.0	30.0	30.0	30.0	
GE 20000	1	22.5	28.0	28.6	29.2	29.6	30.2	30.4	31.0	31.1	31.7	31.8	31.8	31.9	31.9	31.9	31.9	31.9	
GE 18000	1	22.8	28.6	29.5	29.9	30.2	30.9	31.1	31.6	31.7	32.4	32.5	32.5	32.6	32.6	32.6	32.6	32.6	
GE 16000	1	22.8	28.6	29.5	29.9	30.2	30.9	31.1	31.6	31.7	32.4	32.5	32.5	32.6	32.6	32.6	32.6	32.6	
GE 14000	1	23.1	28.9	29.6	30.2	30.5	31.2	31.4	31.9	32.0	32.7	32.8	32.8	32.9	32.9	32.9	32.9	32.9	
GE 12000	1	23.3	29.1	30.0	30.4	30.8	31.4	31.6	32.2	32.3	32.9	33.0	33.0	33.1	33.1	33.1	33.1	33.1	
GE 10000	1	24.3	30.4	31.4	31.6	32.2	32.8	33.0	33.7	33.8	34.4	34.5	34.5	34.6	34.6	34.6	34.6	34.6	
GE 9000	1	24.3	30.4	31.4	31.6	32.2	32.8	33.0	33.7	33.8	34.4	34.5	34.5	34.6	34.6	34.6	34.6	34.6	
GE 8000	1	25.1	32.3	33.3	33.9	34.2	35.1	35.3	36.0	36.1	36.8	36.9	36.9	37.0	37.0	37.0	37.0	37.0	
GE 7000	1	25.9	33.1	34.3	34.6	35.2	36.0	36.2	37.0	37.1	37.7	37.8	37.8	38.0	38.0	38.0	38.0	38.0	
GE 6000	1	26.1	33.5	34.7	35.3	35.6	36.5	36.7	37.4	37.5	38.2	38.3	38.3	38.4	38.4	38.4	38.4	38.4	
GE 5000	1	26.9	34.8	36.0	36.9	37.7	38.0	38.1	38.8	39.5	39.6	39.6	39.7	39.7	39.7	39.7	39.7	39.7	
GE 4000	1	27.7	36.6	37.7	38.4	38.7	39.6	39.8	40.5	40.6	41.3	41.4	41.4	41.5	41.5	41.5	41.5	41.5	
GE 4000	1	27.7	36.6	37.7	38.6	38.9	39.8	40.1	40.9	41.0	41.6	41.7	41.7	41.8	41.8	41.8	41.8	41.8	
GE 3500	1	29.2	38.5	39.7	40.5	40.9	41.7	42.0	42.9	43.0	43.7	43.8	43.8	43.9	43.9	43.9	43.9	43.9	
GE 3000	1	30.2	41.1	42.6	43.8	44.1	44.9	45.3	46.1	46.3	47.0	47.1	47.1	47.2	47.2	47.2	47.2	47.2	
GE 2500	1	31.9	46.0	48.0	49.4	49.9	50.8	51.3	52.5	52.8	53.4	53.5	53.5	53.7	53.7	53.7	53.7	53.7	
GE 2000	1	34.9	52.3	54.7	57.2	58.5	61.0	61.1	62.4	62.9	63.8	64.0	64.0	64.3	64.3	64.3	64.3	64.3	
GE 1800	1	36.5	56.9	57.8	60.4	62.2	63.9	65.1	65.8	67.3	68.3	68.6	68.6	68.9	68.9	68.9	68.9	68.9	
GE 1500	1	38.4	58.0	60.9	63.8	66.4	68.6	70.1	72.0	72.6	73.8	74.1	74.1	74.5	74.5	74.5	74.5	74.5	
GE 1200	1	40.0	60.9	64.1	67.4	70.4	73.0	75.2	77.6	78.2	79.7	80.1	80.1	80.5	80.5	80.5	80.5	80.5	
GE 1000	1	41.0	65.8	69.9	73.2	76.2	78.6	81.0	82.4	84.2	85.1	85.2	85.7	85.7	85.7	85.7	85.7	85.7	
GE 900	1	41.4	67.1	67.2	71.3	74.9	76.0	80.3	83.3	84.1	85.9	86.9	87.0	87.5	87.5	87.5	87.5	87.5	
GE 800	1	41.4	63.3	67.8	71.9	75.7	76.9	81.3	84.5	85.3	87.2	88.4	88.7	89.4	89.4	89.4	89.4	89.4	
GE 700	1	41.4	63.5	68.1	72.2	76.0	79.5	82.0	95.7	86.6	88.6	89.9	90.3	91.0	91.0	91.0	91.0	91.0	
GE 600	1	41.4	63.5	68.1	72.2	76.1	79.7	82.6	86.5	87.6	89.9	91.5	91.9	92.6	92.6	92.6	92.6	92.6	
GE 500	1	41.4	63.5	68.1	72.2	76.2	79.9	83.1	87.1	88.3	91.0	92.8	93.4	94.5	94.5	94.5	94.5	94.5	
GE 400	1	41.4	63.5	68.1	72.2	76.2	80.0	83.2	87.3	88.5	91.6	94.2	94.8	96.0	96.0	96.0	96.0	96.0	
GE 300	1	41.4	63.5	68.1	72.2	76.2	80.0	83.3	87.7	88.9	92.2	95.5	96.2	97.6	97.6	97.6	97.6	97.6	
GE 200	1	41.4	63.5	68.1	72.2	76.2	80.0	83.3	87.7	88.9	92.4	96.0	96.8	98.5	98.8	98.8	99.2	99.2	
GE 100	1	41.4	63.5	68.1	72.2	76.2	80.0	83.3	87.7	88.9	92.4	96.2	97.1	98.8	99.2	99.4	99.9	100.0	
GL	01	41.4	63.7	68.2	72.5	76.3	81.1	83.4	87.8	89.0	92.5	96.3	97.2	98.9	99.4	99.5	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOULGY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GL 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CLIL	22.3	27.6	29.6	26.8	29.1	29.4	29.7	29.7	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.8	
GE 20000	23.7	29.9	32.9	31.1	31.5	31.7	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	
GE 18000	24.2	30.8	31.7	31.9	32.4	32.6	33.0	33.0	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1	
GE 16000	24.2	30.8	31.7	31.9	32.4	32.6	33.0	33.0	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1	
GE 14000	24.3	30.9	31.8	32.0	32.5	32.7	33.1	33.1	33.1	33.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2	
GE 12000	24.8	31.6	32.6	32.8	33.2	33.4	33.9	33.9	33.9	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	
GE 10000	25.5	32.6	33.5	33.8	34.2	34.4	34.9	34.9	34.9	34.9	35.3	35.3	35.3	35.3	35.3	35.3	35.3	
GE 9000	25.5	32.6	33.5	33.8	34.2	34.4	34.9	34.9	34.9	34.9	35.3	35.3	35.3	35.3	35.3	35.3	35.3	
GE 8000	26.5	34.3	35.3	35.6	36.0	36.7	37.2	37.2	37.2	37.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5	
GE 7000	26.9	34.9	35.9	36.2	36.7	37.3	37.8	37.8	37.8	37.8	38.3	38.3	38.3	38.3	38.3	38.3	38.3	
GE 6000	27.3	35.6	36.9	37.2	37.6	38.3	38.8	38.8	38.8	38.8	39.2	39.2	39.2	39.2	39.2	39.2	39.2	
GE 5000	47.7	56.3	57.6	58.0	58.4	59.0	59.6	59.7	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
GE 4500	28.5	37.3	38.6	38.9	39.4	40.0	40.5	40.6	40.6	40.6	41.0	41.0	41.0	41.0	41.0	41.0	41.0	
GE 4000	28.8	37.7	39.1	39.6	40.0	40.6	41.2	41.3	41.4	41.4	41.7	41.7	41.7	41.7	41.7	41.7	41.7	
GE 3500	29.8	39.4	40.8	41.3	41.7	42.4	43.0	43.1	43.1	43.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4	
GE 3000	31.2	42.5	44.1	44.6	45.1	45.7	46.2	46.3	46.5	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	
GE 2500	34.3	49.0	51.4	52.3	52.7	53.4	54.1	54.2	54.3	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	
GE 2000	37.6	56.7	59.9	61.6	62.5	63.5	64.6	64.9	65.3	65.7	66.0	66.0	66.3	66.3	66.3	66.3	66.3	
GE 1800	40.2	60.4	64.5	66.6	67.4	68.7	70.2	70.9	71.2	71.6	71.9	71.9	72.7	72.7	72.7	72.7	72.7	
GE 1500	42.2	63.9	68.3	73.6	72.1	74.2	76.1	77.4	77.7	78.4	78.9	79.0	79.9	79.9	79.9	79.9	79.9	
GE 1200	43.1	65.8	70.6	73.5	75.9	76.0	80.1	81.7	82.2	83.1	83.9	84.0	84.9	84.9	84.9	84.9	84.9	
GE 1000	47.3	67.5	72.9	76.0	78.6	81.2	83.7	85.5	85.9	87.4	88.5	88.8	89.9	89.9	90.0	90.0	90.0	
GE 900	43.3	67.8	73.2	76.3	79.0	81.6	84.5	86.5	86.9	88.6	89.9	90.2	91.4	91.5	91.6	91.6	91.6	
GE 800	43.3	67.8	73.2	76.3	79.1	81.8	85.3	87.3	87.8	89.7	91.0	91.4	92.6	92.7	92.8	92.8	92.8	
GE 700	43.3	68.0	73.3	76.5	79.7	82.4	86.1	88.4	89.0	91.1	92.5	93.1	94.3	94.4	94.5	94.5	94.5	
GE 600	43.3	68.0	73.3	76.5	79.9	82.7	86.6	88.8	89.5	91.7	93.2	94.0	95.2	95.3	95.4	95.4	95.4	
GE 500	43.3	69.0	73.3	76.5	79.9	82.7	86.7	89.1	89.8	92.2	93.8	94.5	95.8	95.9	96.0	96.0	96.0	
GE 400	43.3	69.0	73.3	76.5	79.9	82.7	86.7	89.7	90.3	92.9	94.9	95.7	97.0	97.2	97.4	97.5	97.5	
GE 300	43.3	68.0	73.3	76.5	79.9	82.7	86.8	89.7	90.5	93.1	95.5	96.2	97.5	98.0	98.4	98.5	98.5	
GE 200	43.3	68.0	73.3	76.5	79.9	82.7	86.8	89.9	90.5	93.1	95.5	96.3	97.6	98.1	98.7	99.1	99.1	
GE 100	43.3	68.0	73.3	76.5	79.9	82.7	86.8	89.9	90.5	93.1	95.5	96.3	97.6	98.1	98.8	99.6	99.6	
CE 0	43.3	68.0	72.3	76.5	79.9	82.7	86.8	89.9	90.5	93.1	95.5	96.3	97.6	98.2	98.9	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1500-1700

CEILING FEET	VISIBILITY IN STATUTE MILES															
	1 GE FEET	10 GE 6	GE 4	GE 3	2 1/2 GE	2 GE	1 1/2 GE	1 1/4 GE	1 GE	3/4 GE	5/8 GE	1/2 GE	5/16 GE	1/4 GE	0 GE	
NC CEIL 1	24.3	30.4	31.0	31.0	31.2	31.3	31.3	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
GF 200001	26.6	74.1	34.9	35.1	35.3	35.4	35.4	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
GE 180001	27.1	34.6	35.5	35.6	35.8	35.9	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
UE 160001	27.1	34.6	35.5	35.6	35.8	35.9	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
GE 140001	27.1	34.7	35.6	35.7	35.9	36.0	36.0	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
GE 120001	27.3	35.4	36.2	36.3	36.6	36.7	36.7	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
GF 100001	28.4	36.7	37.5	37.6	37.6	38.0	38.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
UF 90001	28.5	36.6	37.6	37.7	38.0	38.1	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
UE 67001	29.6	38.0	39.5	39.6	40.3	40.4	40.5	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 70001	30.4	39.6	40.4	40.6	41.3	41.4	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
UF 60001	30.5	39.8	40.0	41.2	41.6	41.9	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 55001	31.1	43.6	41.9	42.3	42.9	43.0	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
UF 45001	31.6	41.9	42.1	43.4	44.1	44.2	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
GE 40001	31.9	42.4	43.5	43.9	44.5	44.6	44.7	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
GE 35001	32.7	43.8	45.4	45.7	46.3	46.5	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
UE 30001	35.5	47.4	47.1	49.5	50.1	50.3	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
GF 25001	39.8	53.6	55.6	56.6	57.4	57.7	58.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 27001	44.9	64.0	66.5	68.0	70.4	70.9	71.3	71.7	72.0	72.3	72.4	72.5	72.5	72.5	72.5	72.5
UE 18001	47.3	67.3	70.0	72.4	74.7	75.2	75.9	76.6	76.9	77.2	77.3	77.4	77.4	77.4	77.4	77.4
GE 15001	49.6	71.1	74.3	77.1	79.9	80.6	81.7	82.8	83.4	84.2	84.4	84.5	84.5	84.5	84.5	84.5
UF 12001	50.4	73.0	76.6	79.5	82.7	83.7	85.3	86.5	87.1	88.1	88.3	88.5	88.7	88.7	88.7	88.7
GE 10001	50.6	73.8	77.4	80.3	84.2	85.4	87.2	88.7	89.4	90.8	91.4	91.6	91.8	91.8	91.8	91.8
GE 9001	50.6	73.8	77.4	80.4	85.9	87.7	89.2	89.9	91.3	91.9	92.2	92.4	92.4	92.4	92.4	92.4
GE 8001	50.6	73.8	77.4	80.5	84.6	86.2	88.4	89.9	90.5	91.9	93.0	93.2	93.5	93.7	93.7	93.8
GE 7001	50.6	73.8	77.5	80.6	84.9	86.7	88.9	90.6	91.3	92.8	94.0	94.2	94.6	94.8	94.8	94.9
GE 6001	50.6	73.8	77.5	80.9	85.2	86.9	89.1	90.9	91.7	93.8	95.2	95.5	95.9	96.1	96.1	96.2
GE 5001	50.6	73.8	77.5	80.9	85.2	86.9	89.4	91.1	91.9	94.2	95.7	96.1	96.8	97.0	97.0	97.1
GE 4001	50.6	73.8	77.5	80.9	85.2	86.9	89.8	91.7	92.7	95.2	96.9	97.4	98.1	98.3	98.4	98.5
GE 3001	50.6	73.8	77.5	80.9	85.2	86.9	89.9	91.8	92.8	95.3	97.0	97.6	98.3	98.5	98.7	98.8
GE 2001	50.6	73.8	77.5	80.9	85.2	86.9	89.9	91.8	92.8	95.3	97.0	97.7	98.5	98.8	99.0	99.8
GF 1001	50.6	73.8	77.5	80.9	85.2	86.9	89.8	91.8	92.8	95.3	97.0	97.7	98.5	98.8	99.0	100.0
GE 01	50.6	73.8	77.5	80.9	85.2	86.9	89.8	91.8	92.8	95.3	97.0	97.7	98.5	98.8	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAF/FAAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1800-2000

CEILING IN. FELT	VISIBILITY IN STATUTE MILES															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NC CEIL	23.2	28.4	28.9	29.0	29.1	29.5	29.6	29.6	29.6	29.6	29.7	29.7	29.8	29.8	29.8	29.8
CE 00000	24.7	30.8	31.3	31.4	31.5	31.8	31.9	31.9	31.9	31.9	32.0	32.0	32.2	32.2	32.2	32.2
CE 18000	24.8	30.9	31.4	31.5	31.6	31.9	32.0	32.0	32.0	32.0	32.2	32.2	32.3	32.3	32.3	32.3
CE 16000	24.8	30.9	31.4	31.5	31.6	31.9	32.0	32.0	32.0	32.0	32.2	32.2	32.3	32.3	32.3	32.3
CE 14000	24.8	30.9	31.4	31.5	31.6	31.9	32.0	32.0	32.0	32.0	32.2	32.2	32.3	32.3	32.3	32.3
CE 12000	25.4	31.4	31.9	32.0	32.2	32.5	32.6	32.6	32.6	32.6	32.7	32.7	32.8	32.8	32.8	32.8
CE 10000	26.0	32.0	32.6	33.7	33.9	33.1	33.2	33.2	33.2	33.2	33.2	33.3	33.3	33.4	33.4	33.4
CE 9000	26.2	32.4	32.9	33.0	33.1	33.4	33.5	33.5	33.5	33.5	33.7	33.7	33.8	33.8	33.8	33.8
CE 8000	26.9	33.7	34.4	34.5	34.9	35.3	35.4	35.4	35.4	35.4	35.5	35.5	35.6	35.6	35.6	35.6
CE 7000	27.6	34.4	35.2	35.3	35.7	36.0	36.1	36.1	36.1	36.1	36.2	36.2	36.3	36.3	36.3	36.3
CE 6000	27.6	34.6	35.4	35.5	35.9	36.2	36.5	36.6	36.6	36.6	36.7	36.7	36.8	36.8	36.8	36.8
CE 5000	26.9	36.3	37.1	37.2	37.7	38.1	38.3	38.4	38.4	38.4	38.5	38.5	38.6	38.6	38.6	38.6
CE 4500	30.9	38.8	39.7	39.8	40.3	40.6	40.9	41.0	41.0	41.0	41.1	41.1	41.2	41.2	41.2	41.2
CE 4000	31.1	39.1	40.0	40.1	40.6	41.0	41.2	41.3	41.3	41.3	41.4	41.4	41.5	41.5	41.5	41.5
CE 3500	32.6	41.1	42.5	42.6	43.1	43.4	43.7	43.8	43.8	43.8	43.9	43.9	44.0	44.0	44.0	44.0
CE 3000	35.3	45.2	46.8	46.9	47.4	47.7	48.0	48.1	48.1	48.1	48.2	48.2	48.3	48.3	48.3	48.3
CE 2500	41.0	54.5	56.6	57.5	58.5	58.9	59.2	59.5	59.5	59.5	59.6	59.6	59.7	59.7	59.7	59.7
CE 2000	46.2	64.3	67.3	68.1	70.3	71.0	72.0	72.9	73.0	73.1	73.2	73.2	73.2	73.2	73.2	73.2
CE 1800	46.2	67.2	70.4	72.2	73.9	74.7	75.4	77.0	77.2	77.4	77.5	77.5	77.6	77.6	77.6	77.6
CE 1500	50.5	70.9	74.7	76.9	78.6	79.6	81.2	82.9	83.1	83.5	84.0	84.0	84.1	84.1	84.1	84.1
CE 1200	51.7	73.0	77.3	79.7	81.8	83.0	84.5	86.3	86.6	87.3	87.7	87.7	87.8	87.8	87.8	87.8
CE 1000	51.8	74.0	81.1	83.0	85.1	87.0	89.0	89.4	90.6	91.5	91.7	91.9	91.9	92.2	92.2	92.2
CE 900	51.8	74.0	78.6	81.1	83.6	85.3	87.3	89.5	89.9	91.3	92.5	92.7	92.9	93.1	93.1	93.1
CE 800	51.8	74.3	75.9	81.0	84.3	85.9	88.1	90.5	90.9	92.4	93.7	93.9	94.1	94.3	94.3	94.3
CE 700	51.8	74.3	76.9	81.7	84.5	86.3	88.5	91.4	91.7	93.2	94.7	94.9	95.2	95.2	95.4	95.4
CE 600	51.8	74.3	78.9	81.7	84.5	86.3	88.5	91.4	91.8	93.3	94.9	95.4	95.7	95.7	95.9	95.9
CE 500	51.8	74.3	78.9	81.7	84.5	86.5	88.6	91.5	92.0	94.0	95.6	96.0	96.6	96.6	96.9	96.9
CE 400	51.8	74.3	76.9	81.7	84.6	86.8	89.0	92.2	92.8	94.7	96.5	96.9	97.4	98.0	98.0	98.0
CE 300	51.8	74.3	78.9	81.7	84.7	86.9	89.1	92.3	92.9	94.9	96.8	97.2	98.3	98.8	98.8	98.8
CE 200	51.8	74.3	74.9	81.7	84.7	86.9	89.2	92.4	93.0	95.4	97.2	97.6	98.7	99.0	99.6	100.0
CE 100	51.8	74.3	77.9	81.7	84.7	86.9	89.2	92.4	93.0	95.4	97.2	97.6	98.7	99.0	99.6	100.0
CE 0	51.8	74.3	78.9	81.7	84.7	86.9	89.2	92.4	93.0	95.4	97.2	97.6	98.7	99.0	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 430

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 2100-2300

CEILING		VISIBILITY IN STATUTE MILES																	
IN	FEET	GE 10	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 7/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0			
NO CEIL	19.8	28.1	28.7	29.0	29.1	29.1	29.2	29.2	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7	29.8		
GE 20000	21.7	30.1	31.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GL 18000	21.7	30.1	30.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GE 16000	21.7	30.1	30.8	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GL 14000	21.7	30.1	30.9	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.0	
GE 12000	22.7	30.0	31.4	31.7	31.6	31.9	32.0	32.0	32.0	32.2	32.5	32.5	32.5	32.5	32.5	32.5	32.6		
GE 10000	22.8	31.4	32.7	32.3	32.6	32.7	32.7	32.8	32.8	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	33.3	
GE 8000	22.8	31.5	32.3	32.7	32.6	32.9	33.0	33.0	33.0	33.1	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.5	
GE 6000	23.8	33.0	34.0	34.4	34.5	34.6	34.7	34.7	34.7	34.8	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.3	
GE 7000	24.4	33.7	34.0	35.1	35.2	35.3	35.4	35.5	35.5	35.6	35.9	35.9	35.9	35.9	35.9	35.9	36.0		
GE 6000	24.7	34.3	35.3	35.7	35.8	35.9	36.0	36.1	36.1	36.2	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.7	
GL 5000	25.3	35.3	36.5	36.7	37.0	37.1	37.2	37.3	37.3	37.4	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.8	
GL 4500	26.7	37.0	37.2	36.6	38.7	36.9	39.1	39.2	39.2	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.8	
GE 4000	27.0	37.4	34.6	39.0	39.1	39.4	39.6	39.7	39.7	39.8	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.2	
GE 3500	28.7	39.6	41.1	41.7	41.8	42.0	42.3	42.4	42.4	42.5	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.9	
GE 3000	30.4	41.7	43.2	44.0	44.3	44.5	44.7	44.8	44.9	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.5	
GE 2500	36.6	51.5	54.2	55.5	56.6	57.0	57.2	57.3	57.3	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	58.3	
GE 2700	40.4	58.9	67.0	64.4	66.7	67.4	68.9	69.1	69.8	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	71.4	
GE 1800	41.8	61.9	65.4	68.0	70.2	71.1	72.7	72.9	73.5	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.2	
GE 1500	45.7	68.5	72.3	75.5	78.7	79.7	81.6	82.0	83.5	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.4	
GE 1200	46.2	70.2	74.4	77.7	81.4	82.5	84.5	85.9	86.7	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.7		
GE 1000	46.7	71.4	76.0	74.7	83.7	85.5	87.5	88.5	89.7	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	92.0	
GE 900	46.7	71.4	76.0	79.7	83.9	85.8	87.8	89.2	90.0	91.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.9	
GE 800	46.9	71.9	76.7	80.5	84.8	86.8	88.9	90.3	91.1	92.9	93.7	93.7	93.7	93.7	93.7	93.7	93.7	94.0	
GE 700	46.9	71.9	75.7	81.0	85.1	87.0	89.1	90.6	91.4	93.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.7	
GE 600	46.9	71.9	76.7	80.6	85.1	87.1	89.4	91.0	91.8	93.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.6	
GE 500	46.9	71.9	77.0	81.0	85.4	87.5	89.8	91.5	92.4	94.5	95.9	96.0	96.7	97.2	97.3	97.4			
GE 400	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.3	97.3	97.3	97.3	97.3	97.3	98.2	
GE 300	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.3	97.3	97.3	97.3	97.3	97.3	99.1	
GE 200	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.3	97.3	97.3	97.3	97.3	97.3	99.6	
GE 100	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.4	97.4	97.4	97.4	97.4	97.4	99.9	
GE 0	46.9	72.0	77.1	81.1	85.6	88.1	90.4	92.3	93.2	95.4	97.2	97.4	97.4	97.4	97.4	97.4	97.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726391 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GF 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	21.4	27.9	28.5	28.7	28.9	29.0	29.2	29.2	29.3	29.5	29.6	29.6	29.6	29.6	29.6	29.7
GE 20000	22.8	29.8	30.5	30.7	30.9	31.1	31.3	31.4	31.4	31.6	31.7	31.7	31.7	31.7	31.7	31.8
GE 18000	23.0	30.2	30.6	31.0	31.2	31.4	31.6	31.7	31.8	31.9	32.0	32.0	32.1	32.1	32.1	32.1
GE 16000	23.0	30.2	30.6	31.0	31.2	31.4	31.6	31.7	31.8	31.9	32.0	32.0	32.1	32.1	32.1	32.1
GE 14000	23.1	30.2	30.9	31.1	31.3	31.5	31.7	31.8	31.8	32.0	32.1	32.1	32.2	32.2	32.2	32.2
GE 12000	23.6	30.9	31.6	31.8	32.0	32.2	32.3	32.4	32.5	32.7	32.8	32.8	32.8	32.8	32.8	32.8
GE 10000	24.3	31.7	32.4	32.6	32.8	33.0	33.1	33.3	33.4	33.5	33.7	33.7	33.7	33.7	33.7	33.7
GE 9000	24.4	31.8	32.5	32.7	32.9	33.1	33.3	33.4	33.5	33.7	33.8	33.8	33.8	33.8	33.8	33.9
GE 8000	25.2	33.3	34.1	34.4	34.7	35.0	35.1	35.3	35.4	35.5	35.7	35.7	35.7	35.7	35.7	35.7
GE 7000	25.8	34.1	34.9	35.2	35.5	35.8	35.9	36.1	36.2	36.4	36.5	36.5	36.5	36.5	36.5	36.6
GE 6000	26.0	34.5	35.4	35.6	35.9	36.2	36.4	36.6	36.7	36.8	37.0	37.0	37.0	37.0	37.0	37.0
GF 5000	26.8	35.6	36.6	36.9	37.2	37.5	37.7	37.9	38.0	38.1	38.3	38.3	38.3	38.3	38.3	38.3
GE 4500	27.7	37.0	37.0	38.4	38.7	39.0	39.2	39.4	39.5	39.6	39.8	39.8	39.8	39.8	39.8	39.8
GE 4000	28.0	37.4	38.5	38.9	39.2	39.5	39.7	39.9	40.0	40.2	40.3	40.3	40.3	40.4	40.4	40.4
GE 3500	29.2	39.3	40.6	41.1	41.5	41.7	42.0	42.2	42.3	42.4	42.6	42.6	42.6	42.6	42.6	42.6
GE 3000	31.0	42.3	43.7	44.3	44.7	45.0	45.2	45.5	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 2500	35.5	49.9	51.9	52.6	53.7	54.1	54.4	54.8	55.0	55.1	55.3	55.3	55.3	55.3	55.3	55.4
GE 2000	40.0	58.6	61.3	63.1	64.7	65.5	66.5	67.0	67.3	67.6	67.9	67.9	68.0	68.1	68.1	68.1
GE 1800	41.9	61.9	64.9	67.1	69.7	70.9	71.7	72.0	72.4	72.7	72.7	72.9	72.9	72.9	72.9	72.9
GE 1500	44.4	66.5	69.9	72.3	74.8	76.0	77.6	78.8	79.2	79.8	80.2	80.3	80.5	80.6	80.6	80.6
GE 1200	45.7	69.0	72.8	75.5	78.4	79.8	81.6	83.0	83.5	84.4	84.8	84.9	85.2	85.2	85.2	85.3
GF 1000	46.1	70.5	74.6	77.6	80.8	82.5	84.6	86.2	86.8	88.1	88.8	89.0	89.3	89.3	89.4	89.5
GE 900	46.2	71.0	75.2	78.2	81.6	83.4	85.6	87.5	87.9	89.3	90.1	90.2	90.6	90.7	90.8	90.8
GE 800	46.3	71.3	75.6	78.7	82.3	84.2	86.5	88.4	89.0	90.5	91.5	91.6	92.1	92.1	92.2	92.2
GE 700	46.3	71.4	75.8	79.0	82.6	84.6	87.0	89.1	89.8	91.4	92.5	92.7	93.1	93.3	93.4	93.4
GE 600	46.4	71.5	75.9	79.2	82.9	85.0	87.6	89.8	90.6	92.4	93.8	94.0	94.5	94.7	94.7	94.8
GE 500	46.4	71.6	76.0	79.3	82.1	85.2	87.9	90.2	91.0	93.2	94.9	95.3	96.0	96.2	96.3	96.3
GE 400	46.4	71.6	76.0	79.4	83.2	85.5	88.2	90.7	91.6	93.9	95.9	96.3	97.0	97.3	97.5	97.5
GE 300	46.4	71.6	76.0	79.4	83.3	85.6	88.4	91.0	91.9	94.2	96.5	96.9	97.7	98.1	98.4	98.4
GE 200	46.4	71.6	76.0	79.4	83.3	85.6	88.5	91.1	92.0	94.4	96.8	97.3	98.3	98.8	99.1	99.5
GE 100	46.4	71.6	76.0	79.4	83.3	85.6	88.5	91.1	92.0	94.5	96.9	97.4	98.5	99.0	99.4	99.9
GE 0	46.4	71.6	76.1	79.4	83.3	85.6	88.5	91.1	92.0	94.5	96.9	97.4	98.5	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECOPD: 78-87  
MONTH: FEB      HOURS(LST): 0000-0200

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 1 IC	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL 1 24.3	31.2	31.6	31.8	32.0	32.4	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	
GE 20000 25.7	23.6	33.7	34.3	34.6	35.0	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	
GE 16000 25.7	33.0	33.7	34.3	34.6	35.0	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	
GE 16000 25.7	33.0	33.7	34.3	34.6	35.0	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	
GE 14000 25.7	23.1	33.8	34.4	34.8	35.1	35.5	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	
GE 12000 26.1	33.6	34.3	34.9	35.2	35.6	35.9	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	
GE 10000 26.8	34.9	35.6	36.2	36.5	36.9	37.2	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	
GE 9000 27.0	35.0	35.7	36.3	36.6	37.0	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	
GE 8000 28.7	37.6	38.5	39.1	39.5	40.1	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	
GE 7000 29.0	20.5	39.2	39.6	40.2	40.8	41.1	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	
GE 6000 29.3	39.9	39.6	40.2	40.5	41.1	41.5	41.6	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	
GE 5000 30.5	40.4	41.1	41.7	42.2	42.8	43.1	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	
GE 4500 32.0	42.7	43.4	44.0	44.4	45.0	45.4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	
GE 4000 32.0	43.1	44.2	44.8	45.5	46.1	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	
GE 3500 34.3	45.9	46.9	47.6	48.5	49.1	49.4	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	
GE 3000 36.6	50.8	52.0	52.7	53.7	54.3	54.6	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	
GE 2500 39.8	56.3	57.9	58.7	60.0	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	
GE 2000 43.5	62.8	64.8	66.4	68.3	69.5	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	
GE 1800 44.7	65.5	67.5	69.3	71.0	72.0	73.0	73.8	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	
GE 1500 46.2	68.8	70.9	72.7	75.0	77.0	78.5	79.3	79.4	79.4	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	
GE 1200 47.2	73.7	73.2	74.9	78.4	79.9	81.4	82.3	82.4	82.6	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
GE 1000 47.8	71.7	74.9	77.2	80.9	82.5	84.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	
GE 900 48.0	72.3	75.7	78.5	82.0	83.8	85.5	86.4	86.5	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	
GE 800 48.2	72.6	76.1	76.0	83.0	84.8	86.5	87.5	87.6	88.2	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	
GE 700 48.2	73.3	76.6	79.4	82.6	85.3	87.7	88.2	88.4	89.0	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	
GE 600 48.2	73.3	76.7	79.7	83.9	85.7	87.6	88.5	88.8	89.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	
GE 500 48.2	73.3	76.7	79.7	83.9	85.9	88.3	89.2	89.6	90.5	91.8	92.0	92.3	92.3	92.3	92.3	92.3	92.3	
GE 400 48.5	73.5	77.0	80.1	84.4	86.5	89.6	90.5	90.5	91.8	93.3	93.4	93.9	93.9	94.0	94.0	94.0	94.0	
GE 300 48.5	73.6	77.1	80.4	84.6	86.9	90.5	91.4	91.8	92.6	94.4	94.6	95.2	95.2	95.3	95.3	95.3	95.3	
GE 200 48.5	73.6	77.1	80.4	84.6	86.9	90.5	91.6	92.1	93.0	94.8	94.9	95.6	95.6	96.1	96.1	96.1	96.1	
GE 100 49.5	73.6	77.1	80.4	84.6	86.9	90.8	92.0	92.4	93.5	95.5	95.9	96.6	96.6	97.3	97.3	97.3	97.3	
GE 0 49.5	73.6	77.1	80.4	84.6	86.9	90.8	92.0	92.4	93.5	95.5	95.9	96.7	96.7	97.9	97.9	97.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICES/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES																				
	1	1 1/2	2	2 1/2	3	3 1/2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
NC CEIL	20.6	27.9	29.1	29.7	30.1	30.4	30.5	30.5	30.6	30.6	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
GE <6000	21.6	29.6	31.1	31.7	32.3	32.5	32.6	32.6	32.7	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
GE 18000	21.7	29.8	31.3	31.9	32.5	32.7	32.9	32.9	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
GE 16000	21.7	29.7	31.6	31.9	32.5	32.7	32.9	32.9	33.0	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
GE 14000	21.7	30.0	31.6	32.2	32.7	33.0	33.1	33.1	33.2	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 12000	22.2	30.6	32.2	32.7	33.3	33.6	33.7	33.7	33.8	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
GE 10000	22.6	31.6	33.1	33.7	34.3	34.5	34.6	34.6	34.6	34.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
GE 9000	22.6	31.6	33.2	33.8	34.4	34.6	34.8	34.8	34.9	34.9	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
GE 8000	24.3	34.4	36.2	36.9	37.5	37.7	37.8	37.8	37.9	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
GE 7000	24.8	35.0	36.6	37.5	38.1	38.5	38.7	38.7	38.8	38.8	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 6000	25.3	35.6	37.4	38.1	38.7	39.1	39.2	39.4	39.5	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
GE 5000	26.5	37.9	39.7	40.5	41.3	41.7	41.8	42.1	42.2	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 4500	28.5	39.7	41.7	42.6	43.3	43.9	44.0	44.2	44.3	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
GE 4000	28.5	40.1	42.2	43.0	43.7	44.3	44.4	44.7	44.8	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 3500	30.0	42.8	44.9	45.7	46.6	47.2	47.3	47.5	47.6	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 3000	31.9	45.7	46.0	48.9	49.8	50.4	50.5	50.7	50.8	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
GE 2500	35.6	52.2	55.2	56.7	57.8	58.6	58.9	59.1	59.2	59.2	59.3	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
GE 2000	37.6	56.9	60.3	62.1	63.9	65.2	65.8	66.4	66.7	66.8	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 1800	39.5	59.6	63.4	65.5	67.6	68.9	69.6	70.4	70.7	70.8	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 1500	41.8	64.5	67.2	70.6	73.5	75.1	76.5	77.3	77.5	77.8	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 1200	42.6	66.3	70.3	73.0	76.6	76.1	79.7	80.7	81.0	81.3	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 1000	43.4	67.7	72.2	75.2	79.1	80.9	82.6	84.0	84.4	84.9	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 900	43.6	68.0	72.6	75.5	79.4	81.2	83.0	84.5	84.9	85.3	86.3	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 800	43.6	68.3	72.3	75.6	80.4	82.4	84.2	85.7	86.1	86.6	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 700	43.6	68.6	73.6	77.0	81.2	83.3	85.1	86.9	87.2	88.1	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 600	43.6	69.8	74.1	77.4	82.0	84.2	86.1	87.4	88.3	89.1	90.3	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
GE 500	43.6	68.8	74.1	77.4	82.3	84.4	86.4	88.4	88.8	89.7	91.3	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 400	43.7	68.9	74.2	77.7	82.7	84.9	86.9	88.9	89.2	90.3	91.8	92.2	92.7	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 300	43.7	68.9	74.3	77.9	83.0	85.1	87.1	89.2	89.8	91.0	92.6	92.9	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 200	43.7	68.9	74.3	78.1	83.2	85.3	87.5	90.1	90.9	92.2	94.4	94.8	96.1	96.3	96.9	97.0	97.0	97.0	97.0	97.0	97.0
GE 100	43.7	68.9	74.3	76.1	83.2	85.3	87.5	90.1	91.0	92.4	95.5	95.9	97.3	97.5	98.3	99.1	99.1	99.1	99.1	99.1	99.1
GE 0	43.7	68.9	74.3	76.1	83.2	85.3	87.5	90.1	91.0	92.4	95.5	95.9	97.4	97.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
U.S. SAFETYAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 79-87  
MONTH: FEB HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL	23.8	32.4	33.7	34.0	35.3	35.9	36.2	36.4	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
GE 20000	25.8	36.2	37.6	38.0	39.4	40.0	40.2	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
GE 18000	25.8	36.2	37.6	38.0	39.4	40.0	40.2	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 16000	25.8	36.2	37.6	38.0	39.4	40.0	40.3	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 14000	25.8	36.5	37.9	39.1	39.7	40.3	40.7	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 12000	26.0	36.9	38.3	39.5	40.1	40.7	41.0	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 10000	26.8	38.2	39.6	40.9	41.7	42.4	42.8	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000	27.3	39.8	40.2	41.5	42.3	43.0	43.4	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 8000	28.7	41.0	42.4	44.0	44.9	46.0	46.3	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 7000	29.0	41.5	42.9	44.4	45.5	46.6	46.9	47.4	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 6000	29.3	41.8	43.3	44.8	45.9	46.9	47.3	47.8	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 5000	29.6	42.6	44.0	45.5	46.8	47.9	48.2	48.7	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 4500	30.5	43.7	45.2	46.7	48.1	49.2	49.5	50.0	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2
GE 4000	30.7	44.1	45.5	47.0	48.5	49.5	49.9	50.4	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 3500	31.6	45.2	46.6	48.1	49.5	50.6	50.9	51.4	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 3000	32.2	46.6	48.5	50.0	51.7	52.7	53.2	53.7	53.8	53.9	54.0	54.0	54.0	54.0	54.0	54.0
GE 2500	33.8	49.6	51.4	53.0	54.7	55.9	56.6	57.2	57.3	57.4	57.7	57.8	57.8	57.8	57.8	57.8
GE 2000	35.9	53.2	55.8	57.9	60.2	61.6	62.8	64.1	64.3	64.8	65.1	65.2	65.4	65.4	65.4	65.4
GE 1800	36.2	54.7	57.4	59.8	62.3	63.6	65.2	66.7	67.1	67.6	68.0	68.1	68.2	68.2	68.2	68.2
GE 1500	38.2	58.7	61.6	64.5	68.0	70.4	72.2	73.9	74.3	75.3	76.2	76.4	76.7	76.7	76.7	76.7
GE 1200	38.7	59.8	62.8	66.3	70.1	72.6	74.7	77.2	77.7	78.6	79.8	80.0	80.4	80.4	80.4	80.4
GE 1000	39.5	61.9	65.5	69.1	73.4	76.1	78.6	81.4	81.9	83.2	84.5	84.8	85.2	85.2	85.2	85.2
GE 900	39.5	62.9	66.5	70.2	74.5	77.3	79.6	82.4	83.3	84.8	86.1	86.3	86.8	86.8	86.8	86.8
GE 800	39.5	63.1	66.9	71.3	75.9	78.7	81.6	84.6	85.2	86.8	88.2	88.4	88.9	88.9	88.9	88.9
GE 700	39.5	63.2	67.1	71.7	76.5	79.3	82.4	85.5	86.1	87.6	89.1	89.4	89.8	89.8	89.8	89.8
GE 600	39.5	63.4	67.4	72.1	77.1	79.9	83.3	87.0	88.1	90.1	92.0	92.3	93.0	93.1	93.1	93.1
GE 500	39.5	63.4	67.4	72.1	77.1	79.9	83.3	87.0	88.1	90.1	92.0	92.3	93.0	93.1	93.1	93.1
GE 400	39.5	63.4	67.5	72.1	77.2	80.0	83.5	87.2	88.7	90.7	92.8	93.3	94.2	94.2	94.3	94.3
GE 300	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.5	89.0	91.4	94.1	94.7	95.7	95.7	96.0	96.0
GE 200	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.6	89.2	91.6	94.7	95.4	96.7	96.8	97.6	97.8
GE 100	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.6	89.2	91.6	94.7	95.4	96.7	97.5	98.6	98.9
GE 0	39.5	63.4	67.5	72.3	77.3	80.1	83.6	87.6	89.2	91.6	94.7	95.4	96.7	97.5	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1200-1400

CEILING FEET	VISIBILITY IN STATUTE MILES																	
	IN	GE	GE	GL	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	1	10	6	5	4	3	2	2/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0
NC CEIL 1	27.4	34.5	35.6	35.8	35.9	35.9	36.0	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
GE 20000	30.7	39.0	40.2	40.4	40.7	40.7	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 18000	31.0	39.5	40.8	41.0	41.3	41.3	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
GE 16000	31.0	39.5	40.8	41.0	41.3	41.3	41.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
GE 14000	31.2	39.7	41.0	41.3	41.5	41.5	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
GE 12000	31.8	40.7	42.0	42.2	42.4	42.4	42.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GL 10000	32.2	41.7	43.0	43.4	43.6	43.6	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 9000	32.4	42.0	43.3	43.6	43.9	43.9	44.1	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
GE 8000	32.9	42.8	44.2	44.8	45.2	45.2	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 7000	33.5	43.4	44.9	45.5	46.0	46.0	46.2	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
GE 6000	33.6	43.5	45.0	45.6	46.1	46.1	46.2	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 5000	33.7	43.9	45.4	46.0	46.7	46.7	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
GE 4500	34.0	44.3	45.9	46.5	47.2	47.2	47.5	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 4000	34.9	45.4	47.0	47.6	48.3	48.3	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
GE 3500	35.3	46.2	47.9	48.5	49.2	49.2	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 3000	37.2	49.4	51.1	51.7	52.4	52.4	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 2500	39.7	63.5	55.4	56.3	57.1	57.6	57.9	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GL 2000	42.8	59.2	62.1	63.6	64.7	65.2	66.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 1800	44.7	62.1	65.5	67.5	68.9	69.6	70.8	71.9	71.9	71.9	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 1500	46.7	65.7	69.9	72.3	74.6	76.1	77.5	79.1	79.3	79.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5
GE 1200	47.0	67.4	72.0	74.0	77.7	79.1	80.9	82.5	82.7	83.1	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4
GE 1000	47.3	68.4	77.3	76.6	80.0	81.4	83.3	85.1	85.3	85.7	87.1	87.2	87.4	87.4	87.4	87.4	87.4	87.5
GE 900	47.3	68.6	73.6	77.3	80.9	82.3	84.4	86.5	86.8	87.1	88.5	88.7	88.8	88.8	88.8	88.8	88.8	88.9
GE 800	47.3	68.8	74.3	77.9	82.3	83.7	86.2	88.3	88.5	88.9	90.7	90.9	91.0	91.0	91.0	91.0	91.0	91.1
GE 700	47.3	69.0	74.2	78.3	82.6	84.2	86.6	88.9	89.1	89.5	91.4	91.6	91.7	91.7	91.7	91.7	91.7	91.8
GE 600	47.3	69.0	74.2	78.3	82.6	84.5	87.2	89.6	89.8	90.2	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.8
GE 500	47.3	69.0	74.2	78.3	82.6	84.9	87.7	90.8	91.4	92.4	94.6	94.8	95.0	95.0	95.0	95.0	95.0	95.2
GE 400	47.3	69.0	74.2	78.3	82.6	84.9	87.7	90.9	91.7	92.9	95.3	95.5	96.0	96.0	96.0	96.0	96.1	
GE 300	47.3	69.0	74.2	78.3	82.6	84.9	87.7	91.3	92.3	93.6	96.3	96.6	97.6	97.6	97.6	97.6	97.8	
GE 200	47.3	69.0	74.2	78.3	82.6	84.9	87.7	91.5	92.6	94.0	96.8	97.0	98.6	98.7	98.8	99.1		
GE 100	47.3	69.0	74.2	78.3	82.6	84.9	87.7	91.5	92.6	94.0	96.8	97.0	98.6	98.8	98.9	99.0	99.0	
GE 0	47.3	69.0	74.2	78.3	82.6	84.9	87.7	91.5	92.6	94.0	96.8	97.0	98.6	98.8	98.9	99.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 1/16	GE 1/4	GE 0		
NC CEIL   32.3	38.4	39.2	39.4	39.4	39.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	
GE 20000   36.1	42.9	44.0	44.1	44.1	44.2	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	
GL 18000   36.4	43.6	44.7	44.8	44.8	44.9	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	
GE 16000   36.4	43.6	44.7	44.8	44.8	44.9	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	
GE 14000   36.5	43.7	44.9	44.9	44.9	45.0	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	
GE 12000   36.0	44.3	45.4	45.5	45.5	45.6	45.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	
GE 10000   37.9	46.0	47.0	47.2	47.2	47.3	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	
GE 9000   37.9	46.0	47.0	47.2	47.2	47.3	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	
GE 8000   38.3	46.6	47.6	47.7	47.9	48.0	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
GE 7000   39.9	47.4	48.5	48.6	48.8	48.9	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	
GE 6000   38.9	47.4	48.5	48.6	48.8	48.9	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	
GE 5000   39.0	48.2	49.3	49.6	49.6	49.9	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	
GE 4500   39.4	48.7	49.6	50.1	50.4	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	
GE 4000   39.5	48.9	50.0	50.5	50.5	50.7	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	
GE 3500   45.7	53.1	51.2	51.8	52.0	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	
GE 3000   43.0	53.5	54.6	55.3	55.3	55.6	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	
GE 2500   46.2	59.8	61.7	62.5	62.9	63.1	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	
GE 2000   49.1	66.8	67.6	71.0	71.9	72.2	72.9	73.2	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	
GE 1800   50.6	69.9	72.9	74.6	76.0	76.5	77.1	78.1	78.3	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	
GE 1500   52.1	72.7	76.1	78.4	80.5	81.0	82.2	83.5	83.7	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	
GE 1200   52.4	73.4	77.2	80.1	83.0	83.6	84.8	86.5	86.5	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	
GE 1000   52.6	74.0	77.9	81.1	84.2	85.3	86.8	88.9	89.1	90.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	
GE 900   52.6	74.0	77.9	81.4	84.5	85.7	87.1	89.2	89.6	90.7	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	
GE 800   52.6	74.1	78.4	82.0	85.1	86.4	87.8	90.0	90.3	91.6	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
GE 700   52.6	74.3	79.7	82.4	85.5	86.9	88.5	90.9	91.3	92.6	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	
GE 600   52.6	74.3	78.7	82.4	85.5	87.0	88.7	91.1	91.5	92.9	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2	
GE 500   52.6	74.3	78.7	82.4	85.5	87.0	88.7	91.1	91.5	92.9	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2	
GE 400   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 300   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 200   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 100   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 50   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 0   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 500   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 400   52.6	74.3	79.7	82.4	85.6	87.1	89.0	91.6	92.4	94.8	96.2	96.6	97.0	97.0	97.0	97.0	97.0	97.0	
GE 300   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.4	93.0	95.4	97.3	97.6	98.1	98.2	98.2	98.2	98.2	98.2	
GE 200   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 100   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 50   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 0   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 500   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 400   52.6	74.3	79.7	82.4	85.6	87.1	89.0	91.6	92.4	94.8	96.2	96.6	97.0	97.0	97.0	97.0	97.0	97.0	
GE 300   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.4	93.0	95.4	97.3	97.6	98.1	98.2	98.2	98.2	98.2	98.2	
GE 200   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 100   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 50   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 0   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 500   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 400   52.6	74.3	79.7	82.4	85.6	87.1	89.0	91.6	92.4	94.8	96.2	96.6	97.0	97.0	97.0	97.0	97.0	97.0	
GE 300   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.4	93.0	95.4	97.3	97.6	98.1	98.2	98.2	98.2	98.2	98.2	
GE 200   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 100   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 50   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 0   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 500   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 400   52.6	74.3	79.7	82.4	85.6	87.1	89.0	91.6	92.4	94.8	96.2	96.6	97.0	97.0	97.0	97.0	97.0	97.0	
GE 300   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.4	93.0	95.4	97.3	97.6	98.1	98.2	98.2	98.2	98.2	98.2	
GE 200   52.6	74.3	79.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 100   52.6	74.3	78.7	82.4	85.6	87.1	89.0	92.7	93.3	95.6	97.9	98.2	98.7	98.7	98.7	98.7	98.7	98.7	
GE 50   52.6	74.3	78.7	82.4															

GLOBAL CLIMATOLOGY BRANCH  
USAFMETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	SL 10	GE 6	LE 5	GE 4	GE 3	GE 2 1/2	GE 2	GL 1 1/2	GL 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NS CEIL	33.2	37.4	39.3	39.5	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 20000	36.2	41.4	42.4	43.0	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 18000	36.6	42.4	43.5	44.1	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 16000	36.6	42.4	42.5	44.1	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 14000	36.6	42.4	43.5	44.1	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 12000	39.1	44.4	45.0	46.2	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 10000	39.5	46.2	47.4	48.0	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 9000	39.6	46.6	48.0	48.6	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 8000	40.3	48.1	49.3	50.0	50.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 7000	40.9	48.9	51.1	50.8	51.4	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 6000	40.9	48.9	51.1	50.6	51.4	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 5000	41.4	50.0	51.2	51.9	52.5	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 4500	42.8	51.8	53.0	53.7	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 4000	43.0	52.0	53.2	53.9	54.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 3500	44.9	54.5	55.7	56.7	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 3000	46.6	57.4	58.7	60.0	60.9	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 2500	89.9	63.8	65.5	67.5	68.7	69.0	69.1	69.4	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 2000	52.1	67.8	70.3	72.6	74.2	75.1	75.3	75.9	76.4	76.8	77.0	77.0	77.0	77.0	77.0	77.0
GE 1800	53.4	70.6	72.6	75.9	77.3	78.1	78.6	79.4	79.9	80.5	80.6	80.6	80.6	80.6	80.6	80.6
GE 1500	54.4	72.6	75.4	78.6	80.1	81.2	81.8	82.7	83.2	83.9	84.0	84.0	84.0	84.0	84.0	84.0
GE 1200	54.7	73.6	76.8	80.0	81.9	83.3	84.3	85.3	85.8	86.6	86.8	86.8	86.8	86.8	86.8	86.8
GE 1000	55.0	74.1	77.7	81.3	83.7	85.3	86.6	87.9	88.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7
GE 900	55.0	74.2	77.8	81.6	83.9	85.6	87.2	88.5	89.0	90.0	90.3	90.3	90.3	90.3	90.3	90.3
GE 800	55.0	74.5	78.3	82.0	84.4	86.1	87.7	89.0	89.5	90.5	90.9	90.9	90.9	90.9	90.9	90.9
GE 700	55.0	74.6	78.4	82.3	84.9	86.6	88.7	90.0	90.4	91.6	92.0	92.0	92.0	92.0	92.0	92.0
GE 600	55.0	74.6	78.5	82.5	85.3	87.4	89.4	90.8	91.3	92.4	92.8	93.1	93.3	93.3	93.3	93.3
GE 500	55.0	74.7	78.6	82.6	85.7	87.7	89.7	91.6	92.1	93.5	93.9	94.2	94.6	94.6	94.6	94.6
GE 400	55.0	74.8	78.7	82.7	85.9	87.9	90.1	92.0	92.4	94.3	94.9	95.5	96.2	96.5	96.5	96.5
GE 300	55.0	74.8	78.7	82.7	85.9	87.9	90.3	92.4	92.9	95.2	95.7	96.5	97.3	97.5	97.6	97.6
GE 200	55.0	74.8	78.7	82.7	85.9	88.1	90.7	92.8	93.3	95.5	96.2	97.2	98.2	98.6	98.8	99.2
GE 100	55.0	74.8	78.7	82.7	85.9	88.1	90.7	92.8	93.3	95.5	96.2	97.2	98.2	98.6	99.1	99.6
GE 0	55.0	74.8	78.7	82.7	85.9	88.1	90.7	92.8	93.3	95.5	96.2	97.2	98.2	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-67  
MONTH: FEB HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	31.7	39.5	39.7	40.1	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
GE 20000	32.5	41.1	41.4	41.4	42.2	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 18000	32.6	41.6	41.8	42.3	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 16000	32.6	41.6	41.8	42.3	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 14000	32.6	41.6	41.8	42.3	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 12000	33.2	42.9	43.1	43.0	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 10000	34.3	44.1	44.3	44.9	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 9000	34.3	44.6	44.8	45.4	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 8000	35.7	45.6	45.9	46.5	46.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 7000	35.5	46.3	46.6	47.2	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 6000	35.6	46.8	47.0	47.0	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 5000	36.1	48.0	48.2	48.9	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 4500	37.6	50.0	50.4	51.1	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 4000	38.1	50.5	51.4	51.5	52.0	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
GE 3500	39.7	52.7	53.2	53.9	54.4	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 3000	41.5	56.4	56.9	57.9	58.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 2500	45.7	62.3	63.2	64.9	66.2	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 2000	46.7	66.5	67.1	70.4	72.7	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 1800	47.8	70.1	71.9	74.3	76.7	77.3	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 1500	48.8	72.7	75.2	78.6	P1.1	81.7	83.3	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9
GE 1200	49.3	73.5	76.2	79.9	P2.5	83.3	85.1	85.5	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 1000	49.5	74.4	77.0	81.0	83.8	84.5	87.0	87.6	87.9	88.4	88.4	88.5	88.5	P8.5	88.5	88.5
GE 900	49.5	74.2	77.1	81.3	84.3	85.3	87.5	88.3	88.4	88.9	88.9	89.0	89.0	89.0	89.0	89.0
GE 800	49.5	74.6	77.7	81.9	84.9	E6.1	88.2	89.1	89.2	90.0	90.1	90.2	90.2	90.2	90.2	90.2
GE 700	49.5	75.1	78.3	82.6	85.6	86.9	89.1	90.1	90.2	91.0	91.1	91.3	91.3	91.3	91.3	91.3
GE 600	49.5	75.1	78.3	82.7	85.8	87.4	89.8	90.6	90.9	92.0	92.1	92.2	92.2	92.2	92.2	92.2
GE 500	49.5	75.1	78.3	82.7	85.9	87.5	90.0	90.9	91.0	92.2	92.4	92.6	92.8	92.8	92.8	92.8
GE 400	49.5	75.1	78.4	83.0	86.3	87.9	90.8	91.8	92.3	93.6	94.2	94.3	94.8	95.0	95.0	95.0
GE 300	49.5	75.1	78.5	83.2	86.8	88.4	91.7	93.1	93.7	95.2	95.9	96.0	96.5	96.7	96.8	96.8
GE 200	49.5	75.1	78.5	83.2	86.8	88.5	91.8	93.3	93.9	95.3	96.3	96.5	97.0	97.3	97.4	98.0
GE 100	49.5	75.1	78.5	83.2	86.8	88.5	91.8	93.3	93.9	95.3	96.7	96.8	97.5	97.6	98.3	99.2
GE 01	49.5	75.1	78.5	83.2	86.8	88.5	91.8	93.3	93.9	95.3	96.7	96.6	97.5	97.8	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 846

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): ALL

CEILING IN. FEET	VISIBILITY IN STATUTE MILES															
	GE 10 0	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	27.8	34.6	35.7	36.1	36.4	36.6	36.8	36.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
GE 20000	30.0	38.0	39.0	39.1	39.9	40.1	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 18000	30.1	38.4	39.4	39.9	40.3	41.5	42.7	43.8	44.8	45.8	46.8	47.8	48.8	49.8	49.9	49.9
GE 16000	30.1	38.4	39.4	39.9	40.3	41.5	42.7	43.8	44.8	45.8	46.8	47.8	48.8	49.8	49.9	49.9
GE 14000	30.2	38.5	39.4	40.1	40.4	41.6	42.8	43.8	44.8	45.8	46.8	47.8	48.8	49.8	49.9	49.9
GE 12000	30.7	39.4	40.5	41.0	41.4	41.6	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	42.0	42.0
GE 10000	31.5	40.7	41.6	42.3	42.7	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000	31.7	41.0	42.1	42.7	43.0	43.3	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 8000	32.7	42.7	43.8	44.5	44.9	45.2	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 7000	33.2	43.3	44.5	45.2	45.7	46.0	46.2	46.4	46.4	46.4	46.4	46.5	46.5	46.5	46.5	46.5
GE 6000	33.4	43.6	44.8	45.5	46.0	46.3	46.5	46.7	46.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8
GE 5000	34.0	44.8	46.0	46.7	47.3	47.6	47.9	48.0	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
GE 4500	35.3	46.3	47.6	48.3	48.9	49.3	49.5	49.7	49.7	49.7	49.7	49.8	49.8	49.8	49.8	49.8
GE 4000	35.5	46.7	48.1	48.8	49.5	49.9	50.1	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 3500	36.9	48.6	50.0	50.8	51.4	51.8	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 3000	38.7	51.9	53.4	54.3	55.0	55.5	55.7	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0
GE 2500	41.8	57.3	59.2	60.4	61.5	62.1	62.5	62.7	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9
GE 2000	44.2	62.5	65.0	66.9	68.5	69.3	70.1	70.6	70.7	70.9	71.0	71.0	71.1	71.1	71.1	71.1
GE 1800	45.6	65.4	68.1	70.2	72.1	73.0	73.9	74.6	74.7	75.0	75.2	75.2	75.2	75.2	75.2	75.2
GE 1500	47.1	68.6	71.7	74.2	76.7	77.9	79.2	80.2	80.4	80.8	81.1	81.2	81.2	81.3	81.3	81.3
GE 1200	47.7	70.0	73.4	76.2	79.1	80.4	82.0	83.1	83.3	83.8	84.2	84.3	84.3	84.4	84.4	84.4
GE 1000	48.7	70.9	74.7	77.9	81.1	82.7	84.5	86.0	86.3	86.9	87.5	87.6	87.7	87.7	87.7	87.7
GE 900	48.1	71.2	75.1	78.4	81.8	83.3	85.3	86.8	87.1	87.8	88.5	88.6	88.7	88.7	88.7	88.7
GE 800	48.2	71.5	75.5	79.1	82.6	84.3	86.3	87.6	88.2	89.0	89.8	89.9	90.0	90.0	90.0	90.0
GE 700	48.2	71.8	75.9	79.6	83.2	85.0	87.1	88.8	89.1	90.0	91.0	91.1	91.1	91.1	91.1	91.1
GE 600	48.2	71.8	76.0	79.8	83.5	85.4	87.7	89.4	89.8	90.9	91.8	92.0	92.1	92.1	92.1	92.2
GE 500	48.2	71.9	76.0	79.8	83.7	85.6	88.1	90.0	90.5	91.9	93.1	93.3	93.6	93.7	93.7	93.7
GE 400	48.2	71.9	76.1	80.0	83.9	85.9	88.5	90.5	91.2	92.7	94.1	94.3	94.9	95.0	95.0	95.0
GE 300	48.2	72.0	76.2	80.1	84.1	86.0	88.9	91.1	91.9	93.5	95.1	95.4	96.1	96.2	96.3	96.4
GE 200	48.2	72.0	76.2	80.1	84.1	86.1	89.1	91.5	92.3	94.0	95.9	96.2	97.2	97.4	97.7	97.9
GE 100	48.2	72.0	76.2	80.1	84.1	86.1	89.1	91.6	92.3	94.1	96.2	96.6	97.7	97.9	98.5	99.1
GE 0	48.2	72.0	76.2	80.1	84.1	86.1	89.1	91.6	92.3	94.1	96.2	96.6	97.7	98.0	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 6768

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOLLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	LE 1 1/2	GE 2	GF 1 1/2	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	33.1	42.6	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	
GE 20000	34.2	44.2	44.6	45.1	45.3	45.4	45.4	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	
GE 18000	34.2	44.2	44.6	45.1	45.3	45.4	45.4	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	
GE 16000	34.2	44.2	44.6	45.1	45.3	45.4	45.4	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	
GE 14000	34.4	44.4	44.8	45.3	45.5	45.6	45.6	45.6	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	
GE 12000	34.8	44.9	45.4	45.8	46.0	46.1	46.1	46.1	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	
GE 10000	35.4	45.6	46.0	46.5	46.7	46.8	46.8	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	
GE 9000	35.4	45.6	46.0	46.5	46.7	46.8	46.8	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	
GE 8000	37.7	48.1	48.5	48.9	49.1	49.2	49.2	49.2	49.2	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	
GE 7000	39.2	50.1	50.6	51.3	51.7	51.8	51.9	51.9	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	
GE 6000	39.6	50.9	51.4	52.0	52.5	52.6	52.7	52.7	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	
GE 5000	40.4	52.2	52.6	53.4	53.9	54.0	54.1	54.1	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	
GE 4500	41.9	54.1	54.7	55.5	56.0	56.1	56.2	56.2	56.2	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	
GE 4000	42.2	54.5	55.2	55.9	56.5	56.6	56.7	56.7	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	
GE 3500	44.5	57.2	57.6	58.7	59.2	59.5	59.6	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	
GE 3000	46.1	60.1	61.0	62.2	62.7	62.9	63.0	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	
GE 2500	49.5	65.9	67.0	68.7	69.5	69.7	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	
GE 2000	50.9	68.8	70.2	72.7	73.7	73.9	74.3	74.3	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	
GE 1800	52.0	70.5	71.9	74.4	75.5	75.7	76.1	76.1	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	
GE 1500	53.7	74.3	76.2	78.7	80.2	80.4	81.1	81.2	81.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	
GE 1200	54.3	75.6	77.8	80.6	82.7	82.9	83.9	84.0	84.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	
GE 1000	54.6	76.7	79.4	82.7	85.2	85.4	86.8	86.9	86.9	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	
GE 900	54.9	77.1	79.8	83.2	85.7	86.1	87.7	87.8	87.8	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	
GE 800	54.9	77.3	80.0	83.8	86.5	86.9	88.6	88.7	88.7	89.6	89.7	89.7	89.8	89.8	89.8	89.8	89.8	
GE 700	54.9	77.4	80.1	83.9	86.8	87.2	88.9	89.0	89.0	89.9	90.0	90.0	90.1	90.1	90.1	90.1	90.1	
GE 600	54.9	77.4	80.2	84.2	87.6	88.2	89.9	90.0	90.0	91.0	91.3	91.3	91.4	91.4	91.4	91.4	91.4	
GE 500	54.9	77.6	80.5	84.8	89.0	89.7	91.6	91.9	91.9	93.0	93.4	93.5	93.8	93.8	93.8	93.8	93.8	
GE 400	54.9	77.7	81.0	85.5	89.9	90.5	97.0	93.8	93.8	95.1	95.8	96.0	96.2	96.2	96.2	96.2	96.2	
GE 300	54.9	77.8	81.1	85.6	90.0	90.6	93.2	94.2	94.2	95.9	96.7	96.9	97.3	97.3	97.3	97.3	97.3	
GE 200	54.9	77.8	81.1	85.6	90.2	90.9	93.4	94.5	94.6	96.9	97.6	97.8	98.4	98.4	98.4	98.4	98.4	
GE 100	54.9	77.8	81.2	85.7	90.4	91.1	93.7	94.7	94.8	97.1	97.8	98.2	98.8	99.1	99.4	99.5	99.5	
GE 0	54.9	77.6	81.2	85.7	90.4	91.1	93.7	94.7	94.8	97.1	97.8	98.2	98.8	99.1	99.5	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639J STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS(LST): 0300-0500

CEILING FEET	VISIBILITY IN STATUTE MILES																		
	1	GE	GE																
10	1	6	5	4	3	2	1/2	7	1	1/2	1	1/4	1	3/4	5/8	1/2	5/16	1/4	0
NC CEIL	31.1	43.2	47.6	49.3	44.6	44.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	
GE 10000	31.0	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	
GE 18000	31.9	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	
GE 16000	31.9	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	
GE 14000	31.9	44.9	45.5	46.1	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	
GE 12000	32.3	45.4	45.9	46.6	46.9	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	
GE 10000	32.4	45.6	46.1	46.8	47.1	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	
GE 9000	32.4	45.6	46.1	46.8	47.1	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	
GE 8000	33.8	47.5	48.1	48.7	49.0	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	
GE 7000	35.7	46.9	48.5	50.1	50.4	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	
GE 6000	35.4	49.1	49.7	50.3	50.6	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	
GE 5000	36.3	50.8	51.3	51.9	52.3	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	
GE 4500	37.2	52.0	52.7	53.3	53.7	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	
GE 4000	37.7	52.6	53.2	53.9	54.2	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	
GE 3500	39.8	55.2	55.8	56.5	56.8	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	
GE 3000	41.6	58.7	59.7	60.6	61.2	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	
GE 2500	44.4	63.4	65.1	66.3	67.0	67.2	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	
GE 2000	46.6	67.6	70.0	71.7	72.9	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	
GE 1800	48.0	69.8	72.6	74.5	75.8	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
GE 1500	49.5	71.6	74.6	76.4	78.5	79.0	79.9	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	
GE 1200	50.2	73.2	76.2	78.5	80.4	81.2	82.2	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	
GE 1000	51.2	75.4	78.9	81.6	83.8	84.6	85.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
GE 900	51.2	75.6	79.1	81.9	84.2	85.1	86.3	86.9	86.9	87.0	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	
GE 800	51.3	75.8	79.5	82.6	85.1	86.0	87.3	88.0	88.1	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	
GE 700	51.3	76.0	79.7	83.0	85.5	86.6	88.1	88.7	88.8	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	
GE 600	51.4	76.5	80.2	83.7	86.2	87.3	89.0	89.7	89.9	90.3	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	
GE 500	51.4	79.7	80.4	84.2	87.0	88.2	90.4	91.2	91.3	91.9	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
GE 400	51.4	76.8	82.5	84.7	87.8	89.0	91.4	92.3	92.4	93.1	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	
GE 300	51.4	76.8	80.9	85.1	89.4	89.8	92.5	93.9	94.1	95.1	95.9	96.1	96.2	96.2	96.3	96.3	96.3	96.3	
GE 200	51.4	76.9	81.2	85.4	88.9	90.3	93.1	94.7	95.1	96.5	97.4	97.6	97.7	97.7	97.7	97.7	97.7	97.7	
GE 100	51.4	76.9	81.2	85.4	89.0	90.4	93.2	95.1	95.4	96.8	97.7	98.0	98.3	98.4	98.4	98.4	98.4	98.4	
GE 01	51.4	76.9	81.2	85.4	89.0	90.4	93.2	95.1	95.4	96.8	97.7	98.0	98.3	98.6	99.1	100.0			

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
METEOROLOGICAL  
AIR FORCE WEATHER SERVICE/NASC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOULY OBSERVATIONS

STATION NUMBER: 726790 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87  
MONTH: MAR HOURS(LST): 0600-0800

CEILING FEET	VISIBILITY IN STATUTE MILES															
	1 1/2	2 3	4 5	6 7	8 9	10 11	12 13	14 15	16 17	17 18	18 19	19 20	21 22	22 23	23 24	24 25
VC CEIL 1 29.4	40.0	42.0	43.1	43.8	43.9	44.0	44.7	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
CF 200001 31.7	43.3	44.7	45.7	46.5	46.6	47.0	47.2	47.2	47.2	47.4	47.4	47.6	47.6	47.6	47.6	47.6
CF 100001 31.3	43.3	44.7	45.7	46.5	46.6	47.0	47.2	47.2	47.2	47.4	47.4	47.6	47.6	47.6	47.6	47.6
CF 100001 31.3	43.3	44.7	45.7	46.5	46.6	47.0	47.2	47.2	47.2	47.4	47.4	47.6	47.6	47.6	47.6	47.6
CF 100001 31.0	43.4	44.8	45.8	46.6	46.7	47.1	47.3	47.3	47.3	47.5	47.5	47.7	47.7	47.7	47.7	47.7
CF 100001 31.0	43.7	45.1	46.0	46.8	46.9	47.3	47.5	47.5	47.5	47.7	47.7	48.0	48.0	48.0	48.0	48.0
CF 100001 37.3	45.2	46.9	48.0	48.8	48.9	49.5	49.7	49.7	49.7	49.9	49.9	50.1	50.1	50.1	50.1	50.1
CF 90001 37.3	45.2	46.9	48.0	48.8	48.9	49.5	49.7	49.7	49.7	49.9	49.9	50.1	50.1	50.1	50.1	50.1
CF 30001 32.6	46.2	48.1	49.2	50.1	50.3	51.5	51.7	51.7	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9
CF 70001 33.0	47.3	49.1	50.3	51.2	51.4	51.9	52.2	52.2	52.2	52.4	52.4	52.6	52.6	52.6	52.6	52.6
CF 60001 37.0	47.7	49.6	50.3	51.6	51.8	52.4	52.6	52.6	52.6	52.8	52.8	53.0	53.0	53.0	53.0	53.0
CF 50001 34.1	42.8	51.3	51.9	52.8	53.1	53.7	54.0	54.0	54.0	54.2	54.2	54.4	54.4	54.4	54.4	54.4
CF 40001 34.0	49.9	51.6	53.1	54.1	54.5	55.3	55.5	55.5	55.5	55.7	55.7	55.9	55.9	55.9	55.9	55.9
CF 40001 35.0	52.2	52.9	53.5	54.5	54.9	55.7	55.9	55.9	55.9	56.1	56.1	56.3	56.3	56.3	56.3	56.3
CF 35001 37.6	53.4	57.0	57.2	58.3	58.9	59.8	60.0	60.0	60.0	60.2	60.2	60.4	60.4	60.4	60.4	60.4
CF 35001 34.2	55.0	56.7	61.3	61.4	62.0	62.9	63.1	63.1	63.1	63.3	63.3	63.5	63.5	63.5	63.5	63.5
CF 25001 41.0	59.4	60.4	64.4	65.7	66.3	67.4	67.6	67.6	67.6	67.8	67.8	68.1	68.1	68.1	68.1	68.1
CF 20001 42.3	52.6	56.6	59.3	70.0	70.6	72.0	72.3	72.3	72.3	72.5	72.5	72.7	72.7	72.7	72.7	72.7
CF 18001 42.0	67.9	67.3	69.9	71.8	72.6	74.0	74.2	74.2	74.2	74.4	74.4	74.6	74.6	74.6	74.6	74.6
CF 15001 44.1	65.9	68.0	72.6	75.1	75.9	77.6	78.5	78.5	78.5	79.1	79.1	79.4	79.4	79.4	79.4	79.4
CF 17001 44.7	67.3	71.6	74.1	76.6	77.6	79.5	80.4	80.8	81.1	81.3	81.5	81.5	81.5	81.5	81.5	81.5
CF 100001 45.4	69.2	73.2	76.7	79.4	80.6	82.7	83.6	84.1	84.4	84.7	84.8	85.1	85.1	85.1	85.1	85.1
CF 90001 45.0	69.6	73.7	77.1	79.9	81.3	83.5	84.6	84.9	85.4	85.7	85.8	86.0	86.0	86.0	86.0	86.0
CF 80001 45.8	67.9	74.0	77.7	80.5	82.2	84.5	85.8	86.2	87.1	87.4	87.5	87.9	87.8	87.8	87.8	87.8
CF 70001 45.0	70.1	74.2	78.2	81.0	82.0	85.1	86.0	87.1	88.1	88.4	88.5	88.8	88.8	88.8	88.8	88.8
CF 60001 45.9	70.3	74.6	79.7	81.6	83.3	86.0	88.0	89.7	90.3	90.4	90.8	90.8	90.8	90.8	90.8	90.8
CF 40001 45.0	70.4	75.1	79.5	82.5	84.2	86.9	89.1	89.7	91.0	91.8	92.2	92.5	92.5	92.5	92.5	92.5
CF 40001 45.0	70.5	75.4	80.1	83.1	85.2	87.8	90.4	91.0	92.4	93.3	93.7	94.0	94.2	94.3	94.3	94.3
CF 30001 45.6	72.5	75.4	80.2	83.2	85.2	88.6	91.5	92.2	93.5	94.6	94.9	95.5	95.7	95.8	95.9	95.9
CF 20001 45.0	70.5	75.4	80.2	83.2	85.3	88.8	91.8	92.5	93.9	95.3	95.6	96.3	96.7	97.2	97.5	97.5
CF 10001 45.0	73.5	75.4	80.2	83.4	85.9	89.0	92.0	92.7	94.4	95.8	96.1	97.1	97.4	98.5	98.9	98.9
CF 01 45.9	70.5	75.4	80.2	83.4	85.9	89.0	92.0	92.7	94.4	95.8	96.1	97.1	97.5	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GEOPHYSICAL CLIMATELOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 75-87

MONTH: MAR FOLRS(LST): 0900-1100

CEILING	VISIBILITY IN STATUTE MILES																								
	1 FLEET	1 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/4	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
FE CECIL 1 34.5	43.0	42.0	44.5	44.3	44.4	44.4	44.4	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	
GE 200001 35.2	45.5	47.0	48.0	48.1	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	
GE 180001 36.2	45.9	47.0	48.0	48.1	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	
GE 160001 36.2	45.9	47.0	48.0	48.1	48.3	48.3	48.3	48.3	48.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	
GE 140001 36.3	46.2	47.3	48.3	48.4	48.4	48.6	48.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	
GE 120001 36.5	46.0	47.6	48.6	48.7	48.9	48.9	48.9	48.9	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	
GE 100001 36.8	47.2	47.3	49.2	49.4	49.6	49.6	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	
GE 90001 36.9	47.2	49.3	49.2	49.4	49.6	49.6	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	
GE 80001 37.2	46.3	47.6	51.1	51.2	51.5	51.5	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	
GE 70001 37.7	42.2	50.9	52.5	52.7	53.1	53.1	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	
GE 60001 38.1	49.9	51.5	53.1	53.3	53.6	53.8	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	
GE 50001 38.7	50.4	51.2	53.0	54.2	54.6	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	
GE 40001 39.1	51.8	52.7	55.4	55.4	56.3	56.5	56.5	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	
GE 30001 39.4	52.0	53.4	55.6	56.1	56.6	56.7	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	
GE 30001 39.7	53.1	54.9	56.9	57.4	57.8	58.1	58.1	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	
GE 30001 41.0	55.4	57.4	59.4	60.5	61.2	61.4	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	
GE 25001 42.0	57.4	59.7	62.2	63.8	64.5	64.8	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	
GE 25001 44.4	61.2	63.6	66.0	66.8	70.1	70.8	71.1	71.2	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	
GE 13001 45.5	62.8	65.4	68.8	71.1	72.4	73.0	73.2	73.2	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	
GE 15001 46.7	65.5	67.7	70.7	72.0	74.5	75.9	76.8	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	
GE 17001 49.0	67.7	71.1	74.5	77.2	78.9	79.9	80.8	81.1	81.4	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	
GE 18001 49.4	68.9	72.3	75.3	77.1	81.2	82.4	83.6	84.2	84.5	85.4	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	
GE 20001 49.5	69.9	73.2	76.9	80.3	82.4	83.7	85.4	85.7	86.7	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	
GE 20001 49.5	70.0	73.4	77.3	80.9	83.0	84.5	86.2	86.6	87.0	88.1	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	
GE 20001 49.5	70.0	73.5	76.0	81.8	84.6	85.6	88.0	88.5	89.2	90.6	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	
GE 20001 49.5	73.9	75.3	92.3	94.4	96.2	98.0	98.8	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 2001 49.5	70.2	74.2	79.1	83.7	85.9	87.8	90.6	91.5	92.3	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	
GE 4001 49.5	70.2	74.2	79.0	84.2	87.0	89.0	91.9	92.8	93.8	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	
GE 3001 49.5	70.2	74.2	79.0	84.2	87.0	89.0	91.9	92.8	93.8	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	
GE 2001 49.5	70.2	74.2	79.0	84.2	87.0	89.0	91.9	92.8	93.8	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	
GE 1001 49.5	70.2	74.2	79.0	84.2	87.0	89.0	91.9	92.8	93.8	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	
GE 01 49.5	70.2	74.2	79.0	84.2	87.0	89.0	91.9	92.8	93.8	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
GSAFETAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 73-87

PERIOD OF RECORD: 73-87  
MONTH: MAR HOURS(LST): 1200-1400

VISIBILITY IN STATUTE MILES																		
CEILING		IN	FEET	GE														
		1	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'
AC	CITY	1	37.4	43.2	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
AC	20000	40.3	46.8	47.1	47.1	47.2	47.4	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
AC	10000	40.3	46.5	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
AC	16000	40.3	46.5	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
AC	14000	40.3	46.5	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
AC	12000	40.3	46.8	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
AC	10000	41.8	48.9	47.7	49.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
AC	9000	42.0	49.0	47.8	50.0	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
AC	8000	42.6	50.5	51.5	51.7	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
AC	7000	43.4	51.6	52.7	53.0	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
AC	6000	43.4	51.8	52.9	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
AC	5000	43.5	52.5	53.7	53.5	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
AC	4000	44.1	53.2	54.4	54.0	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
AC	4000	44.3	53.8	54.0	55.3	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
AC	3000	44.5	54.5	56.0	56.1	57.1	57.1	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
AC	2000	46.7	57.4	57.7	59.1	59.5	60.0	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
AC	2000	50.7	61.8	63.5	64.4	66.4	65.5	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
AC	1500	53.2	67.5	71.0	71.0	72.3	72.5	72.8	73.0	73.0	73.2	73.3	73.3	73.4	73.4	73.4	73.4	73.4
AC	1000	54.2	69.9	72.6	73.0	75.3	75.3	76.0	76.5	76.5	76.7	76.8	76.8	76.9	76.9	76.9	76.9	76.9
AC	1000	55.5	72.4	77.0	78.1	78.7	79.5	80.1	79.4	79.4	80.5	80.9	80.9	81.0	81.0	81.0	81.0	81.0
AC	1000	56.1	74.6	79.0	79.9	81.9	82.9	83.5	84.1	84.1	84.5	84.6	84.7	84.9	84.9	84.9	84.9	84.9
AC	1000	56.5	75.6	79.2	81.6	84.2	85.3	86.3	87.1	87.1	87.1	87.6	88.2	88.3	88.4	88.4	88.4	88.4
AC	500	56.5	75.9	79.7	82.3	84.6	85.8	86.9	87.6	87.6	87.6	87.9	88.3	88.9	88.9	89.0	89.1	89.1
AC	500	55.5	76.1	80.0	82.8	85.4	86.7	87.8	88.9	88.9	88.9	89.9	90.6	91.8	91.8	91.8	91.8	91.8
AC	500	56.5	76.5	83.3	83.1	86.2	87.7	87.9	88.3	88.3	89.3	91.4	92.3	92.4	92.6	92.6	92.6	92.6
AC	500	56.5	76.5	84.3	85.1	88.5	88.2	89.0	91.4	91.4	92.6	93.7	93.9	94.1	94.3	94.3	94.3	94.3
AC	500	56.5	76.5	84.4	85.2	86.9	88.8	90.5	92.4	92.4	93.7	94.9	95.2	95.5	95.7	95.9	95.9	95.9
AC	400	56.5	76.5	87.4	88.3	97.2	89.2	91.6	93.5	93.5	95.1	96.3	96.6	96.9	97.1	97.3	97.3	97.3
AC	400	56.5	76.5	87.4	89.3	97.5	89.4	91.6	94.2	94.4	96.1	97.5	97.7	98.1	98.2	98.5	98.5	98.5
AC	300	56.5	76.5	87.4	89.3	97.5	89.6	91.6	94.2	94.2	96.6	98.0	98.3	98.6	99.0	99.5	99.7	99.7
AC	100	56.5	76.5	87.4	92.3	97.5	99.6	91.6	94.2	94.6	96.6	99.0	98.3	98.6	99.0	99.5	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
CIN WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 720390 STATION NAME: ALBINA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1500-1700

CEILING	VISIBILITY IN STATUTE MILES																		
	1	GE																	
FEET	1	1P	1	5	4	3	2	1/2	2	1	1/2	1	1/4	1	3/4	5/8	1/2	5/16	1/4
NO CEIL	1	48.2	46.8	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 20000	1	44.2	51.5	52.0	52.5	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 19000	1	44.2	51.5	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 18000	1	44.2	51.6	52.3	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
GE 14000	1	44.6	52.0	52.7	52.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 12000	1	44.9	52.6	53.0	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
GE 10000	1	46.3	54.4	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 9000	1	46.7	54.6	55.3	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 8000	1	47.0	55.6	56.7	56.8	56.9	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 7000	1	48.1	56.3	57.2	57.3	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 6000	1	48.2	56.5	57.3	57.4	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 5000	1	48.4	57.1	58.0	58.1	58.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 4500	1	48.7	57.6	58.3	58.7	59.0	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 4000	1	49.1	58.1	59.1	59.2	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 3500	1	50.3	59.7	60.8	61.0	61.3	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 3000	1	55.1	64.9	66.1	66.5	66.8	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5
GE 2500	1	57.4	68.9	70.3	70.6	71.0	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	72.0	72.0	72.0	72.0	72.0
GE 2000	1	60.1	73.5	75.5	76.0	76.6	77.1	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.7	77.7	77.7	77.7	77.7
GE 1500	1	60.4	74.9	77.2	77.7	78.4	79.0	79.7	79.6	79.6	79.6	79.6	79.6	79.6	79.8	79.8	79.8	79.8	79.8
GE 1000	1	61.0	76.7	79.8	80.4	81.4	82.5	82.7	83.3	83.4	83.5	83.5	83.5	83.5	83.9	83.9	83.9	83.9	83.9
GE 1200	1	61.2	77.4	80.5	81.3	82.3	83.4	84.2	84.6	84.7	84.8	84.8	84.8	85.2	85.2	85.2	85.2	85.2	85.2
GE 1000	1	61.4	78.6	81.9	83.3	84.5	85.9	86.7	87.1	87.2	87.3	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 900	1	61.4	78.8	82.3	83.8	84.9	86.3	87.1	87.5	87.6	87.8	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 800	1	61.4	79.0	82.6	84.4	85.7	87.1	87.8	88.3	88.4	88.6	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 700	1	61.4	79.2	82.9	84.7	86.0	87.7	88.6	89.1	89.4	89.6	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.0
GE 600	1	61.4	79.5	83.1	85.2	86.7	88.4	89.6	90.1	90.4	90.8	91.9	92.3	92.5	92.5	92.5	92.5	92.5	92.5
GE 500	1	61.4	79.5	83.2	85.3	86.8	88.5	89.8	90.5	90.8	91.5	92.8	93.1	93.5	93.7	93.8	93.8	93.8	93.8
GE 400	1	61.4	79.5	83.3	85.4	87.2	89.0	90.9	92.2	92.7	93.5	94.8	95.3	95.7	96.0	96.1	96.1	96.1	96.1
GE 300	1	61.4	79.5	83.3	85.4	87.2	89.1	91.2	92.6	93.2	94.3	96.1	96.6	97.3	97.7	97.8	97.8	97.8	97.8
GE 200	1	61.4	79.5	83.3	85.4	87.3	89.2	91.5	92.9	93.7	94.7	96.7	97.3	98.1	98.6	99.0	99.4	99.4	99.4
GE 100	1	61.4	79.5	83.3	85.4	87.3	89.2	91.5	92.9	93.7	94.7	96.7	97.3	98.1	98.6	99.0	99.4	99.4	99.4
GE 0	1	61.4	79.5	83.3	85.4	87.3	89.2	91.5	92.9	93.7	94.7	96.7	97.3	98.1	98.6	99.0	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS: 930

ICG.0

GLOBAL CLIMATOLOGY BRANCH  
E-SECTAC  
NIF WEATHER SERVICE/NAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1800-2000

CEILING		VISIBILITY IN STATUTE MILES																	
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		1"	2"	3"	4"	5"	6"	7"	1 1/2"	1 1/4"	1"	3/4"	5/8"	1/2"	7/16"	GE 1/4"	GE 1/2"	GE 1/4"	GE 1/2"
ME	CEIL	42.2	46.6	46.6	47.3	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
ME	20000	45.1	50.3	51.6	51.2	51.4	51.4	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
ME	15000	45.7	50.5	51.0	51.4	51.6	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
ME	16000	45.4	50.6	51.1	51.5	51.7	51.7	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
ME	14000	45.9	51.2	51.6	52.0	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
ME	14000	46.6	51.6	52.3	52.7	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
ME	10000	47.2	52.8	53.2	53.7	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
ME	9000	47.4	53.2	53.7	54.1	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
ME	8000	48.5	54.6	55.1	55.5	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
ME	7000	49.5	55.8	56.3	56.9	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
ME	6000	49.8	56.3	56.8	57.3	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
ME	5000	50.1	56.7	57.1	57.6	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
ME	4500	51.7	58.7	59.1	59.8	60.2	60.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
ME	4000	51.9	59.4	59.8	60.4	60.8	60.9	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
ME	3500	54.0	61.5	62.0	63.2	63.9	64.0	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
ME	3000	56.2	64.7	65.5	66.2	66.9	67.0	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
ME	2500	60.1	70.6	71.6	72.9	73.8	74.0	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
ME	2000	62.2	74.1	75.8	77.4	78.8	79.2	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
ME	1500	62.5	75.9	78.1	79.8	81.3	81.7	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
ME	1000	63.1	77.2	79.9	81.8	83.5	84.2	84.8	85.1	85.1	85.2	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4
ME	700	63.3	78.2	81.0	83.0	84.6	85.5	86.1	86.3	86.3	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
ME	500	63.4	79.1	82.2	84.6	86.7	87.3	88.2	88.4	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
ME	300	63.4	79.2	82.3	85.1	87.2	87.6	88.7	89.2	89.2	89.2	89.5	89.5	90.0	90.0	90.1	90.1	90.1	90.1
ME	200	63.5	79.5	82.7	85.5	87.7	88.4	89.4	90.1	90.1	90.5	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2
ME	100	63.5	79.5	82.7	85.5	87.8	88.5	89.7	90.3	90.3	91.0	91.8	91.8	91.6	91.6	91.6	91.6	91.6	91.6
ME	50	63.5	79.5	82.7	85.5	88.1	88.8	90.1	90.9	90.9	91.5	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6
ME	20	63.5	79.5	82.7	86.0	89.5	90.4	92.4	93.7	93.7	95.4	97.0	97.2	97.8	98.1	98.1	98.4	98.4	98.4
ME	10	63.5	79.5	82.7	86.0	89.5	90.4	92.4	93.7	93.7	95.4	97.1	97.6	98.5	98.9	99.0	99.5	99.5	99.5
ME	5	63.5	79.5	82.7	86.0	89.5	90.4	92.4	93.7	93.7	95.4	97.1	97.6	98.5	98.9	99.0	99.1	99.1	99.1

1611 NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87  
MONTH: MAR HOURS(LST): 2100-2300

CEILING FLEET	VISIBILITY IN STATE MILES															
	GE 10 FLEET	GE 11	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/4	GE 3	GE 7/4	GE 5 7/8	GE 1/2	GE 5/16	GE 1 1/4
NC CEIL	37.7	44.4	44.6	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
CE 20000	39.1	46.7	47.0	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
CE 18000	39.1	46.7	47.0	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
SL 16000	39.1	46.7	47.0	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
CE 14000	39.1	46.8	47.1	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
CE 12000	39.7	47.4	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
CE 10000	40.6	48.6	49.1	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
CE 9000	40.8	48.7	49.1	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
CE 8000	42.3	40.6	51.1	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
CE 7000	43.7	52.4	52.0	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
CE 6000	43.9	52.8	53.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
CE 5000	44.7	53.9	54.3	54.9	54.9	54.9	54.9	55.2	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
CE 4500	46.0	55.7	56.2	56.9	56.9	56.9	56.9	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
CE 4000	46.5	56.6	57.2	57.8	58.0	58.0	58.0	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
CE 3500	48.2	58.8	59.6	60.3	61.4	60.6	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
CE 3000	50.1	61.7	62.6	63.4	63.5	63.7	63.9	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
CE 2500	54.0	68.3	69.6	70.5	70.8	71.1	71.5	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2
CE 2000	55.7	71.9	74.0	75.4	75.7	76.1	76.6	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4
CE 1800	56.9	73.9	75.9	77.3	77.6	78.1	78.5	79.1	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4
CE 1700	59.0	76.2	77.3	81.1	81.8	82.6	83.2	94.0	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2
CE 1200	58.5	77.8	81.1	82.2	84.2	84.9	85.7	86.6	86.7	87.0	87.2	87.2	87.2	87.2	87.2	87.2
CE 1100	58.8	82.3	84.6	85.7	86.6	87.3	88.3	88.4	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9
CE 900	59.0	79.2	82.9	85.3	86.6	87.4	88.4	89.4	89.5	90.0	90.2	90.2	90.2	90.2	90.2	90.2
CE 800	59.4	80.0	83.9	86.2	87.6	88.5	89.5	90.4	90.5	91.1	91.3	91.3	91.3	91.3	91.3	91.3
CE 700	59.4	80.0	83.9	86.2	87.7	88.7	89.8	90.8	90.9	91.4	91.6	91.6	91.6	91.6	91.6	91.6
CE 600	59.5	90.1	84.0	86.6	88.1	89.0	90.2	91.2	91.3	92.0	92.4	92.4	92.4	92.4	92.4	92.4
CE 500	59.5	80.3	84.2	86.8	88.6	89.8	91.1	92.4	92.5	93.2	93.5	93.5	93.7	93.7	93.7	93.7
CE 400	59.5	80.5	84.4	87.1	89.1	90.5	92.6	94.1	94.4	95.3	96.1	96.1	96.2	96.3	96.3	96.3
CE 300	59.5	80.6	84.5	87.4	69.5	92.9	94.6	95.7	96.2	97.2	97.2	97.2	97.3	97.4	97.4	97.4
CE 200	59.5	80.6	84.5	87.4	69.5	71.0	93.0	94.9	95.4	96.5	97.5	97.5	98.1	98.2	98.3	98.3
CE 100	59.5	80.6	84.5	87.4	89.5	91.0	93.2	95.3	95.7	96.8	97.8	98.1	98.9	99.0	99.6	99.7
CE 0	59.5	80.6	84.5	87.4	89.5	91.0	93.2	95.3	95.7	96.8	97.8	98.1	98.9	99.0	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 7E-67  
MONTH: MAR HOURS(LST): ALL

CEILING FELT	VISIBILITY IN STATUTE MILES																	
	IN 10	GE C	GE S	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	35.7	43.8	44.3	44.7	44.9	45.0	45.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	
GE 20000	37.8	46.7	47.4	47.9	48.1	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	
GE 18000	37.8	46.7	47.4	47.9	48.1	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	
GE 16000	37.8	46.7	47.4	47.9	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	
GE 14000	38.0	46.9	47.6	48.1	48.4	48.5	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	
GE 12000	38.4	47.5	48.1	48.7	48.9	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.2	49.2	49.2	49.2	49.2	
GE 10000	39.1	48.5	49.3	49.8	50.1	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.4	50.4	50.4	50.4	50.4	
GE 9000	39.2	49.6	49.4	50.0	50.2	50.3	50.4	50.4	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	
GE 8000	40.3	50.2	51.1	51.7	52.0	52.1	52.2	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	
GE 7000	41.3	51.5	52.4	53.1	53.4	53.5	53.7	53.7	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	
GF 6000	41.5	51.9	52.8	53.5	53.8	54.0	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	
CE 5000	42.0	52.8	53.7	54.4	54.9	55.0	55.2	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	
GE 4500	43.0	54.2	55.2	55.9	56.4	56.5	56.8	56.8	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	
GE 4000	43.3	54.7	55.7	56.5	56.9	57.1	57.3	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	
GE 3500	44.9	56.8	57.4	58.0	59.3	59.5	59.8	59.9	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0	60.0	
GE 3000	47.0	59.9	61.2	62.2	62.9	63.2	63.5	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	
GE 2500	49.8	64.5	66.2	67.5	68.3	68.7	69.2	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	
GE 2000	51.9	68.4	71.7	72.4	73.6	74.1	74.7	74.9	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	
GE 18000	52.8	70.2	72.7	74.5	75.8	76.4	77.0	77.3	77.3	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	
GE 15000	53.9	72.5	75.4	77.5	79.2	80.6	80.8	81.3	81.3	81.5	81.7	81.7	81.8	81.8	81.8	81.8	81.8	
GE 12000	54.5	74.0	77.1	79.4	81.3	82.2	83.1	83.7	83.8	84.1	84.3	84.3	84.4	84.4	84.4	84.4	84.4	
GE 11000	55.0	75.3	78.7	81.4	83.6	84.6	85.8	86.5	86.6	86.9	87.3	87.4	87.5	87.5	87.5	87.5	87.5	
GE 9000	55.1	75.7	79.1	81.9	84.2	85.3	86.5	87.3	87.4	87.8	88.3	88.3	88.4	88.4	88.5	88.5	88.5	
GE 8000	55.2	76.0	79.5	82.5	84.9	86.1	87.4	88.3	88.4	89.0	89.5	89.6	89.7	89.7	89.7	89.7	89.7	
GE 7000	55.2	76.1	79.7	82.0	85.4	86.6	88.1	89.1	89.3	90.0	90.6	90.7	90.8	90.8	90.8	90.8	90.8	
GE 6000	55.2	76.2	79.9	83.1	85.9	87.2	88.9	90.0	90.2	91.0	91.8	91.9	92.1	92.1	92.1	92.1	92.1	
GE 5000	56.2	76.3	80.1	83.5	86.1	88.0	89.8	91.2	91.4	92.3	93.2	93.4	93.6	93.7	93.7	93.7	93.7	
GE 4000	55.2	76.4	80.2	83.9	87.1	88.7	90.9	92.5	92.8	93.9	95.0	95.2	95.5	95.6	95.7	95.7	95.7	
GE 3000	55.2	76.4	80.3	84.0	87.4	89.1	91.4	93.4	93.8	95.1	96.4	96.6	96.9	97.1	97.2	97.2	97.2	
GE 2000	55.2	76.4	80.3	84.1	87.6	89.3	91.7	93.7	94.2	95.7	97.1	97.3	97.8	98.1	98.3	98.6	98.6	
GE 1000	55.2	76.4	80.4	84.1	87.6	89.3	91.6	93.8	94.3	95.8	97.3	97.6	98.3	98.6	99.1	99.5	99.5	
GE 0	55.2	76.4	80.4	84.1	87.6	89.3	91.8	93.8	94.3	95.8	97.3	97.6	98.3	98.7	99.2	100.0		

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0000-0200

CEILING FEET	VISIBILITY IN STATUTE MILES																	
	IN	GL 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GL 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	39.1	46.7	49.0	49.5	49.9	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
GE 20000	47.3	50.6	51.8	52.1	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	
GE 18000	40.3	50.7	51.9	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	
GE 16000	40.3	50.7	51.9	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	
GE 14000	40.3	50.7	51.9	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	
GE 12000	40.6	51.3	52.6	52.9	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	
GE 10000	40.9	51.7	52.9	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	
GE 9000	40.9	51.7	52.9	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	
GE 8000	42.2	53.4	54.7	55.0	55.1	55.1	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	
GE 7000	43.2	54.7	56.0	56.3	56.4	56.4	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	
GE 6000	43.9	55.4	56.8	57.1	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	
GE 5000	44.7	56.6	58.0	58.3	58.4	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.7	
GE 4500	47.0	60.2	61.6	62.1	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	
GE 4000	47.1	60.6	62.1	62.4	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9	
GE 3500	48.8	63.8	65.4	65.8	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	
GE 3000	51.0	67.0	68.0	69.2	69.7	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	
GE 2500	53.0	71.7	73.6	74.1	74.7	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	
GE 2000	54.8	74.6	77.1	77.9	78.7	79.0	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.7	
GE 1600	55.1	75.7	76.0	76.8	79.7	80.0	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	
GE 1500	56.6	78.0	82.4	81.2	82.1	82.4	82.8	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.4	
GE 1200	57.4	79.0	81.6	82.4	83.3	83.7	84.0	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7	
GE 1000	57.6	79.7	82.3	83.4	84.4	85.0	85.3	85.6	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	86.0	
GE 900	57.8	79.7	82.6	83.6	84.3	85.3	85.7	85.9	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.3	
GE 800	57.8	80.2	83.2	84.4	85.6	86.2	86.8	87.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	
GE 700	57.8	80.6	83.6	84.9	86.0	86.9	87.4	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.2	
GE 600	57.8	80.7	83.6	85.4	86.8	87.8	88.3	89.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	
GE 500	57.6	81.3	84.3	86.3	87.6	89.3	90.3	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	
GE 400	57.8	91.4	84.8	87.0	88.6	90.6	91.7	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	
GE 300	57.9	81.8	85.1	87.3	89.6	91.3	92.0	95.0	95.4	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.9	
GE 200	57.9	81.8	85.1	87.3	89.3	91.6	93.7	96.0	96.4	96.9	97.3	97.4	97.4	97.4	97.4	97.4	97.4	
GE 100	57.9	81.8	85.1	87.3	89.8	91.6	93.8	96.1	96.6	97.3	98.1	98.3	99.0	99.0	99.1	99.1	99.2	
GE 0	57.9	81.8	85.1	87.3	89.8	91.6	93.6	96.1	96.6	97.3	98.1	98.3	99.0	99.0	99.2	99.2	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87

MONTH: APR

HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	LE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	37.8	48.3	48.8	49.3	49.8	49.6	49.7	49.8	49.9	50.1	50.1	50.2	50.2	50.3	50.3	50.3
GE 20000	32.6	51.1	51.7	52.2	52.4	52.4	52.6	52.7	52.7	52.8	53.0	53.0	53.1	53.2	53.2	53.2
GE 16000	32.6	51.1	51.7	52.2	52.4	52.4	52.6	52.7	52.7	52.8	53.0	53.0	53.1	53.1	53.2	53.2
GE 16000	39.6	51.1	51.7	52.2	52.4	52.4	52.6	52.7	52.7	52.8	53.0	53.0	53.1	53.1	53.2	53.2
GE 14000	39.6	51.1	51.7	52.2	52.4	52.6	52.7	52.8	52.8	52.9	53.1	53.1	53.2	53.2	53.3	53.3
GE 12000	39.8	51.4	52.0	52.6	52.8	53.0	53.1	53.2	53.2	53.3	53.6	53.6	53.7	53.7	53.8	53.8
GE 10000	40.6	52.4	53.0	53.6	53.8	54.1	54.2	54.3	54.3	54.4	54.7	54.7	54.8	54.8	54.9	54.9
GE 9000	40.8	52.4	53.0	53.6	53.8	54.1	54.2	54.3	54.3	54.4	54.7	54.7	54.8	54.8	54.9	54.9
GE 8000	42.7	54.8	55.3	56.0	56.2	56.6	56.7	56.8	56.8	56.9	57.1	57.1	57.2	57.2	57.3	57.3
GE 7000	43.0	55.6	56.1	56.9	57.1	57.4	57.6	57.7	57.7	57.8	58.0	58.0	58.1	58.1	58.2	58.2
GE 6000	43.1	55.8	56.3	57.1	57.3	57.7	57.9	57.9	57.9	58.0	58.2	58.2	58.3	58.3	58.4	58.4
GE 5000	44.2	57.6	58.1	58.9	59.2	59.6	59.7	59.8	59.8	59.9	60.1	60.1	60.2	60.2	60.3	60.3
GE 4500	45.4	60.6	61.4	62.4	62.8	63.1	63.3	63.4	63.4	63.6	63.8	63.8	63.9	63.9	64.0	64.0
GE 4000	46.6	60.9	61.9	62.9	63.2	63.6	63.8	63.9	63.9	64.1	64.3	64.3	64.4	64.4	64.6	64.6
GE 3500	47.9	63.1	64.2	65.2	65.9	66.2	66.4	66.6	66.6	66.8	67.0	67.0	67.1	67.1	67.2	67.2
GE 3000	49.1	65.1	66.3	67.4	68.1	68.4	68.8	68.9	68.9	69.1	69.3	69.3	69.4	69.4	69.6	69.6
GE 2500	50.8	69.1	70.4	71.9	72.7	73.0	73.3	73.4	73.4	73.8	74.0	74.0	74.1	74.1	74.2	74.2
GE 2000	52.1	71.4	73.6	74.6	75.6	75.9	76.2	76.3	76.3	76.7	76.9	76.9	77.0	77.0	77.1	77.1
GE 1800	53.2	73.1	74.8	76.3	77.4	77.8	78.1	78.3	78.3	78.7	78.9	78.9	79.0	79.0	79.1	79.1
GE 1500	54.4	75.4	77.1	78.7	79.8	80.1	80.4	80.8	80.8	81.2	81.4	81.4	81.6	81.6	81.7	81.8
GE 1200	55.2	76.4	78.1	79.7	80.9	81.2	81.6	81.9	81.9	82.4	82.8	82.8	82.9	82.9	83.0	83.1
GE 1000	55.6	77.1	78.9	80.4	81.8	82.1	82.4	82.8	82.8	83.3	83.7	83.7	83.8	83.8	83.9	84.0
GE 900	55.7	77.3	79.2	80.9	82.1	82.4	82.8	83.1	83.1	83.7	84.0	84.0	84.1	84.1	84.2	84.3
GE 800	55.7	78.0	80.0	81.6	83.0	83.3	83.8	84.1	84.2	84.6	85.1	85.1	85.2	85.2	85.3	85.4
GE 700	55.7	78.4	82.7	82.4	84.1	84.6	85.0	85.6	85.7	86.2	86.6	86.6	86.7	86.7	86.8	86.9
GE 600	55.7	78.9	81.6	83.7	85.6	86.0	86.4	87.2	87.3	88.0	88.3	88.3	88.4	88.4	88.6	88.7
GE 500	55.7	79.4	82.6	84.9	87.1	87.7	88.2	89.2	89.3	90.0	90.7	90.7	91.0	91.0	91.1	91.2
GE 400	55.7	80.0	82.1	85.6	88.2	88.6	89.6	90.9	91.1	92.0	92.8	93.1	93.4	93.6	93.7	
GE 300	55.7	80.3	83.3	86.1	88.7	89.3	90.7	92.6	92.8	93.7	94.4	94.4	94.9	95.2	95.3	95.4
GE 200	55.8	80.1	82.4	86.2	88.8	89.6	91.2	93.7	93.9	94.9	95.7	95.9	96.3	96.7	96.8	96.9
GE 100	55.8	80.1	83.4	86.2	88.9	89.7	91.3	94.2	94.4	95.4	96.8	97.0	97.8	98.2	98.4	98.8
GE 0	55.9	80.1	83.4	86.2	88.9	89.7	91.3	94.2	94.4	95.6	96.9	97.1	97.9	98.4	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87  
MONTH: APR HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0			
NC CEIL 1	35.6	44.3	45.8	46.1	46.4	46.8	47.0	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.3	47.3	47.3	
GE 200001	37.3	47.8	49.3	49.7	50.0	50.6	50.8	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.1	51.1	51.1
GE 180001	37.4	47.9	49.4	49.8	50.1	50.7	50.9	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.2	51.2	51.2
GE 160001	37.4	47.9	49.4	49.8	50.1	50.7	50.9	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.2	51.2	51.2
GE 140001	37.6	48.0	49.8	49.9	50.2	50.8	51.0	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.3	51.3	51.3
GE 120001	37.9	48.3	49.9	50.4	50.6	51.1	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.7	51.7	51.7	
GE 100001	39.4	50.6	52.3	52.8	53.1	53.7	53.9	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.2
GE 90001	39.4	50.8	52.3	52.8	53.1	53.7	53.9	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.2
GE 80001	41.3	53.4	55.9	56.3	56.8	57.3	57.7	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.0	58.0
GE 70001	42.3	54.7	57.1	57.6	58.1	58.7	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.3	59.3
GE 60001	42.4	55.2	57.7	58.2	58.8	59.3	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0	
GE 50001	42.8	56.1	58.7	59.3	59.9	60.4	61.0	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3
GE 45001	44.6	59.0	61.6	62.2	62.8	63.4	64.1	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.6	64.6	64.7
GE 40001	44.6	59.0	61.6	62.2	62.8	63.6	64.2	64.3	64.4	64.6	64.6	64.7	64.7	64.7	64.7	64.8	64.8	64.8
GL 35001	45.9	61.0	63.7	64.3	65.1	65.8	66.4	66.7	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.1	67.1	67.1
GE 30001	47.1	62.6	65.2	65.9	66.8	67.4	68.1	68.3	68.4	68.6	68.6	68.7	68.7	68.7	68.7	68.8	68.8	68.8
UT 25001	47.8	65.0	67.5	69.0	69.9	70.6	71.2	71.4	71.6	71.7	71.8	71.8	71.8	71.8	71.8	71.9	71.9	71.9
GE 20001	49.4	67.7	71.1	72.0	73.7	74.4	75.2	75.4	75.6	75.7	75.9	75.9	75.9	75.9	75.9	76.0	76.0	
GE 18001	50.7	69.2	72.0	74.4	75.7	76.4	77.2	77.4	77.6	77.7	78.0	78.0	78.0	78.0	78.0	78.1	78.1	
GE 15001	51.4	70.4	74.2	76.3	77.6	78.6	79.3	79.6	79.7	79.8	80.1	80.2	80.2	80.2	80.3	80.3	80.3	
GL 12001	51.7	71.4	75.2	77.4	78.8	80.0	81.0	81.1	81.3	81.7	81.8	81.8	81.8	81.8	81.8	81.9	81.9	
GE 10001	52.7	72.3	76.3	78.8	80.3	81.6	82.3	82.6	82.7	83.0	83.3	83.4	83.4	83.4	83.4	83.6	83.6	83.6
GE 90001	52.4	72.6	76.9	79.4	81.1	82.3	83.1	83.4	83.7	84.0	84.3	84.4	84.4	84.4	84.4	84.6	84.6	84.6
GE 80001	52.6	72.8	77.2	79.8	81.7	83.0	83.8	84.4	84.8	85.2	85.8	85.9	85.9	85.9	85.9	86.0	86.0	86.0
GE 70001	52.6	73.3	77.8	80.3	82.3	83.7	84.6	85.6	85.9	86.3	87.2	87.3	87.3	87.3	87.4	87.4	87.4	
GE 60001	52.6	73.7	76.1	80.8	82.6	84.2	85.1	86.3	86.7	87.1	88.0	88.2	88.2	88.2	88.3	88.3	88.3	
GE 50001	52.6	73.9	78.4	81.1	83.3	85.0	86.2	87.7	88.0	88.7	89.6	89.9	89.9	89.9	89.9	90.0	90.0	90.0
GE 40001	52.7	74.2	78.9	82.1	84.7	86.9	88.2	89.3	90.8	91.8	92.8	93.1	93.2	93.3	93.4	93.6		
GE 30001	52.7	74.2	79.0	82.4	85.2	87.6	88.9	91.4	92.1	93.4	94.7	95.0	95.1	95.4	95.6	95.7		
GE 20001	52.7	74.2	79.0	82.4	85.2	87.7	89.3	91.4	92.0	94.8	96.2	96.7	96.8	97.1	97.3	97.8	97.8	
GE 10001	52.7	74.2	79.0	82.4	85.2	87.7	89.0	91.9	93.1	95.0	96.6	97.1	97.3	97.7	97.9	98.0		
GE 0001	52.7	74.2	79.0	82.4	85.2	87.7	89.0	91.9	93.1	95.0	96.6	97.1	97.3	97.7	97.9	98.0		

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES																	
IN FEET	IC	GE 5	GE 5	GE 4	GE 3	GE 2	GE 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC LEIL	42.0	48.4	49.0	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	
GE 20000	44.9	52.0	52.6	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
LE 18000	44.9	52.0	52.6	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
GE 16000	44.9	52.0	52.6	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
GE 14000	44.9	52.1	52.7	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	
LE 12500	45.7	53.0	53.6	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	
GE 10000	46.3	53.6	54.3	54.7	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	
GE 9000	46.3	53.9	54.4	54.6	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	
GE 8000	47.8	55.9	56.4	57.1	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	
GE 7000	48.3	56.6	57.4	58.1	58.4	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	
LE 6000	48.6	57.0	57.7	58.3	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	
GE 5000	49.0	57.9	58.6	59.2	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	
GE 4500	50.0	59.7	60.3	61.0	61.6	61.6	62.1	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	
GE 4000	50.3	60.3	61.0	61.7	62.2	62.4	63.0	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	
GE 3500	51.0	61.2	62.0	62.7	63.3	63.6	64.0	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	
LE 3000	51.4	62.4	63.4	64.1	65.1	65.3	65.6	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	
GE 2500	53.6	66.4	67.9	68.8	69.8	70.0	70.6	70.7	70.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	
GE 2000	55.0	70.6	72.5	73.0	74.0	74.6	75.1	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	
GE 1800	55.7	72.1	73.7	74.0	74.6	76.3	77.1	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	
GE 1500	57.1	74.4	76.1	77.7	78.7	79.3	80.3	80.6	80.8	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	
GE 1200	58.2	76.0	77.8	79.7	80.7	81.4	82.4	83.1	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	
GE 1000	58.6	76.9	79.0	81.2	82.2	83.1	84.3	85.0	85.0	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	
GL 900	58.8	77.0	79.2	81.7	82.7	83.7	84.9	85.7	85.7	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	
GE 800	59.0	77.2	79.4	82.2	83.2	84.3	85.7	86.8	86.9	87.3	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	
GE 700	59.1	77.9	80.1	83.3	84.6	85.6	87.3	88.6	88.7	89.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
GE 600	59.2	78.1	80.6	83.8	85.0	86.4	88.1	87.6	87.6	89.1	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	
GE 500	59.2	78.3	80.9	84.2	85.6	87.0	88.9	90.9	91.3	92.2	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	
GE 400	59.2	78.6	81.1	84.8	86.2	87.9	90.1	92.8	93.6	94.7	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	
GE 300	59.2	78.6	81.1	84.8	86.3	88.1	90.7	93.7	94.4	95.8	97.2	97.7	97.9	98.1	98.1	98.1	98.1	98.1	
GE 200	59.2	78.6	81.1	84.8	86.3	88.1	90.7	94.0	95.0	96.7	98.4	98.9	99.2	99.4	99.4	99.4	99.4	99.4	
GE 100	59.2	78.6	81.1	84.8	86.3	88.1	90.7	94.0	95.0	96.7	98.6	99.0	99.6	99.9	99.9	99.9	99.9	99.9	
CE 01	59.2	78.6	81.1	84.8	86.3	88.1	90.7	94.0	95.0	96.7	98.6	99.0	99.6	99.9	99.9	99.9	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87

MONTH: APR

HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL	42.3	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 20000	45.9	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 18000	45.9	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 16000	45.9	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 14000	46.1	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 12000	46.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
GE 10000	47.3	54.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 9000	47.4	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 8000	50.2	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 7000	51.0	58.4	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
GE 6000	51.2	58.6	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 5000	51.8	59.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 4000	53.6	61.7	62.2	62.2	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 4000	54.0	62.3	63.0	63.1	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 3500	54.8	63.7	64.3	64.4	64.9	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 3000	55.7	65.0	66.1	66.6	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 2500	60.4	71.6	72.3	72.7	73.1	73.6	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 2000	62.1	75.2	76.4	77.4	78.0	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 1800	62.8	76.7	77.9	78.4	79.0	79.6	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 1500	64.1	79.2	80.9	81.4	82.8	83.3	83.9	84.4	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 1200	65.2	81.0	83.0	84.3	85.6	86.2	86.8	87.3	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1000	65.4	81.7	84.3	86.0	87.6	88.2	88.9	89.6	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 900	65.8	82.3	85.0	86.8	88.4	89.1	89.8	90.6	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 800	65.8	82.4	85.3	87.6	89.2	90.2	91.0	91.9	92.1	92.4	92.7	92.7	92.7	92.7	92.7	92.7
GE 700	65.8	82.4	85.6	88.0	90.0	91.1	91.9	93.1	93.3	93.7	93.9	93.9	93.9	93.9	93.9	93.9
GE 600	65.9	82.6	85.8	86.4	90.6	91.7	92.6	94.2	94.4	95.0	95.2	95.2	95.2	95.2	95.2	95.2
GE 500	65.9	82.6	85.6	86.6	90.9	92.0	93.0	94.8	95.1	95.8	96.1	96.1	96.2	96.2	96.2	96.2
GE 400	65.9	82.6	85.6	88.6	90.9	92.2	93.4	95.8	96.1	96.8	97.3	97.4	97.6	97.6	97.6	97.6
GE 300	65.9	82.6	85.5	88.6	91.1	92.7	93.9	96.2	96.6	97.4	98.1	98.2	98.3	98.3	98.3	98.3
GE 200	65.9	82.6	85.6	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE 100	65.9	82.6	85.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4	99.4
GE 0	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -100	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -200	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -300	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -400	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -500	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -600	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -700	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -800	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -900	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1000	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1100	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1200	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1300	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1400	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1500	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1600	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1700	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1800	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -1900	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2000	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2100	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2200	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2300	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2400	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2500	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2600	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2700	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2800	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -2900	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -3000	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -3100	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -3200	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96.4	96.8	97.9	98.7	99.0	99.4	99.4	99.4	99.4
GE -3300	65.9	82.6	85.3	88.6	91.1	92.7	94.0	96								

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 76-87  
MONTH: APR HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1 6	GE 4	GE 5	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	43.2	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 20000	46.7	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 18000	46.7	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 16000	46.7	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 14000	46.8	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 12000	47.3	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 10000	47.9	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 9000	48.1	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 8000	49.7	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
GE 7000	50.4	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 6000	50.4	55.6	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
GE 5000	52.0	57.4	57.6	57.6	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 4500	54.6	60.6	61.0	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3
GE 4000	55.3	61.3	61.8	61.8	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2
GE 3500	57.8	63.8	64.3	64.3	64.6	64.6	64.7	64.8	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9
GE 3000	59.9	66.9	67.4	67.7	68.0	68.0	68.2	68.3	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 2500	63.9	72.6	73.3	73.6	73.9	74.0	74.2	74.3	74.4	74.6	74.8	74.8	74.8	74.8	74.8	74.8
GE 2000	65.9	77.3	78.1	78.4	79.3	79.4	79.8	79.9	80.0	80.1	80.3	80.3	80.4	80.4	80.4	80.4
GE 1800	66.6	78.4	79.4	80.3	80.8	80.9	81.2	81.3	81.4	81.6	81.8	81.8	81.9	81.9	81.9	81.9
GE 1500	67.8	81.0	82.2	83.6	84.0	84.1	84.6	84.7	84.8	84.9	85.1	85.1	85.2	85.2	85.2	85.2
GE 1200	68.3	81.8	83.3	84.8	85.3	85.4	85.9	86.1	86.2	86.3	86.6	86.6	86.7	86.7	86.7	86.7
GE 1000	68.4	82.4	84.4	86.3	87.0	87.1	87.7	87.9	88.0	88.3	88.7	88.7	88.8	88.8	88.8	88.8
GE 900	69.0	83.3	85.3	87.2	88.1	88.2	88.8	89.0	89.1	89.6	90.0	90.0	90.1	90.1	90.1	90.1
GE 800	69.0	83.6	85.0	87.9	89.0	89.2	89.8	90.0	90.2	90.8	91.3	91.6	91.7	91.7	91.7	91.7
GE 700	69.0	84.1	86.3	88.5	90.2	90.7	91.4	91.8	92.0	92.6	93.1	93.3	93.4	93.4	93.4	93.4
GE 600	69.0	84.1	86.3	88.9	90.6	91.1	91.7	92.2	92.6	93.1	93.7	93.9	94.0	94.0	94.0	94.0
GE 500	69.0	86.2	86.4	89.1	91.2	91.6	92.6	93.0	93.4	94.2	94.9	95.2	95.3	95.3	95.3	95.3
GE 400	69.0	86.2	86.4	89.2	91.4	92.0	93.3	94.0	94.7	95.7	96.7	97.0	97.2	97.2	97.2	97.2
GE 300	69.0	86.4	86.4	89.2	91.4	92.2	93.8	94.7	95.4	96.6	97.8	98.2	98.4	98.7	98.7	98.7
GE 200	69.0	86.4	86.4	89.2	91.4	92.2	93.8	94.7	95.4	96.6	98.0	98.6	98.9	99.1	99.1	99.1
GE 100	69.0	86.2	86.4	89.2	91.4	92.4	93.8	94.7	95.4	96.7	96.2	98.8	99.1	99.4	99.6	99.8
GE 01	69.0	86.2	86.4	89.2	91.4	92.2	93.8	94.7	95.4	96.7	98.2	98.8	99.1	99.4	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 700

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FLIGHT OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1800-2000

CEILING	VISIBILITY IN STATUTE MILES																	
	IN	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 3/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL	38.9	42.5	43.2	43.3	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	
GE 20000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	
GE 16000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	
GE 16000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	
GE 14000	43.0	47.2	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	
GE 12000	43.0	48.3	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	
GE 10000	44.8	49.8	50.7	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	
GE 9000	45.0	50.0	51.9	51.0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	
GE 8000	47.7	53.3	54.5	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	
GE 7000	48.6	55.0	56.1	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	
GE 6000	49.0	55.5	56.6	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	
GE 5000	49.9	56.6	57.8	57.9	58.0	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	
GE 4500	52.1	59.9	61.4	61.6	61.7	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	
GE 4000	52.6	60.4	61.8	62.0	62.1	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	
GE 3500	54.9	62.9	64.5	64.8	64.9	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	
GE 3000	57.1	66.8	66.5	69.2	69.3	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	
GE 2500	59.8	71.4	73.7	74.5	74.6	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	
GE 2000	62.7	75.9	78.7	79.6	79.7	80.4	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	
GE 1800	63.4	77.3	80.3	81.2	81.4	82.2	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	
GE 1500	63.5	78.3	81.4	82.5	83.2	84.0	84.5	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
GE 1200	63.7	78.6	81.6	83.0	83.9	84.7	85.5	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	
GE 1000	64.0	79.3	82.9	84.1	85.1	86.0	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	
GE 900	64.1	79.5	83.2	84.4	85.4	86.3	87.1	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	
GE 800	64.4	80.4	84.1	85.3	86.3	87.2	88.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	
GE 700	64.5	80.7	84.4	85.7	86.4	87.9	88.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	
GE 600	64.5	80.6	84.5	86.1	87.4	89.0	90.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	
GE 500	64.5	80.8	84.9	86.4	88.0	89.8	91.5	92.9	93.0	93.7	94.3	94.4	94.8	95.0	95.1	95.1	95.1	
GE 400	64.5	80.6	84.9	86.4	88.3	90.3	92.3	93.6	94.1	95.4	96.3	96.4	96.8	97.0	97.1	97.1	97.1	
GE 300	64.5	80.6	84.9	86.4	88.3	90.5	92.8	94.5	95.0	96.4	97.4	97.8	98.2	98.6	98.7	98.7	98.7	
GE 200	64.5	80.8	84.9	86.4	88.3	90.5	92.8	94.5	95.0	96.5	97.7	98.0	98.4	98.9	99.0	99.0	99.0	
GE 100	64.5	80.8	84.9	86.4	88.3	90.5	92.8	94.5	95.1	96.8	97.9	98.2	98.7	99.2	99.7	99.9	99.9	
GE 0	64.5	80.6	84.9	86.4	88.3	90.5	92.8	94.5	95.1	96.8	97.9	98.2	98.7	99.2	99.7	100.0		

TOTAL NUMBER OF OBSERVATIONS: 898

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87

MONTH: APR HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	37.5	46.0	46.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 20000	40.0	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 18000	40.8	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 16000	40.8	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 14000	40.8	48.4	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 12000	41.1	49.3	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 10000	41.8	49.9	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 9000	41.9	50.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 8000	44.5	53.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3
GE 7000	44.8	53.8	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.3
GE 6000	45.4	54.6	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1
GE 5000	46.7	57.1	58.1	58.3	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.8	58.8	58.8	58.8
GE 4500	47.3	60.9	62.2	62.4	62.5	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.0
GE 4000	49.5	61.6	63.0	63.2	63.3	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9
GE 3500	51.3	63.5	65.1	65.4	65.6	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.1	66.1	66.1	66.1
GE 3000	54.3	68.6	70.2	70.9	71.1	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7
GE 2500	57.2	73.0	75.3	76.4	76.7	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4
GE 2000	58.2	75.1	77.7	79.4	80.0	80.4	80.7	80.7	80.7	80.7	80.8	80.9	80.9	80.9	80.9	80.9
GE 1800	58.6	76.4	78.9	80.6	81.3	81.6	81.9	81.9	81.9	82.1	82.2	82.2	82.3	82.3	82.3	82.3
GE 1500	59.2	77.6	80.4	82.4	83.1	82.6	83.9	83.9	83.9	84.3	84.5	84.5	84.6	84.6	84.6	84.6
GE 1200	59.3	77.9	80.8	82.9	83.7	84.4	84.7	84.7	84.9	85.3	85.5	85.5	85.6	85.6	85.6	85.6
GE 1000	59.8	78.8	81.6	84.2	84.9	85.7	86.2	86.4	86.5	87.0	87.2	87.2	87.3	87.3	87.3	87.3
GE 900	59.8	78.9	81.9	84.3	85.1	85.8	86.4	86.6	86.7	87.2	87.4	87.4	87.5	87.5	87.5	87.5
GE 800	60.0	79.5	82.6	85.1	85.6	86.7	87.3	87.6	87.7	88.2	88.4	88.4	88.5	88.5	88.5	88.5
GE 700	62.0	79.9	83.1	85.5	86.5	87.4	88.4	88.7	88.9	89.3	89.6	89.6	89.7	89.7	89.7	89.7
GE 600	67.2	80.2	67.5	96.0	87.3	98.4	90.0	90.7	90.9	91.3	91.6	91.6	91.8	91.8	91.8	91.8
GE 500	67.4	80.7	84.1	67.0	89.0	90.2	91.9	93.0	93.1	94.1	94.4	94.4	94.6	94.6	94.6	94.6
GE 400	68.5	81.0	84.5	67.5	89.7	91.0	93.2	94.6	94.9	96.1	96.5	96.5	96.8	96.8	96.8	96.8
GE 300	68.5	81.2	84.6	67.6	90.0	91.2	93.6	95.1	95.3	96.8	97.2	97.2	97.4	97.4	97.4	97.4
GE 200	68.5	81.2	84.6	87.6	90.3	91.5	94.1	95.5	95.8	97.9	98.4	98.4	98.7	98.7	98.7	98.7
GE 100	68.5	81.2	84.6	87.6	90.3	91.5	94.1	95.5	95.9	98.1	98.7	98.8	99.1	99.1	99.4	99.4
GE 0	68.5	81.2	84.6	87.6	90.3	91.5	94.1	95.5	95.9	98.1	98.7	98.8	99.1	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 897

GLOBAL CLIMATOLOGY BRANCH  
USAFAETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALBENIA MI

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): ALL

CEILING FEET	VISIBILITY IN STATUTE MILES																	
	10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GL 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL   39.7	46.2	46.8	47.0	47.1	47.1	47.2	47.2	47.2	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	
UE 20000  42.3	50.1	51.6	51.7	51.1	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.4	51.4	
UE 18000  42.3	50.1	50.8	51.0	51.1	51.2	51.3	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	
UE 16000  42.3	50.1	50.8	50.8	51.0	51.1	51.2	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	
UE 14000  42.4	50.2	50.9	51.1	51.2	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.5	51.5	51.5	51.5	
UE 12000  42.9	50.9	51.6	51.9	52.0	52.1	52.1	52.1	52.1	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	
UE 10000  43.7	51.9	52.6	52.9	53.0	53.1	53.2	53.2	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	
UE 9000  43.8	52.1	52.9	53.1	53.2	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.5	53.5	
UE 8000  45.8	54.5	55.4	55.7	55.8	55.9	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.2	56.2	56.2	
UE 7000  46.5	55.6	55.5	56.8	57.0	57.1	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.4	57.4	
UE 6000  46.8	56.0	57.0	57.3	57.9	57.6	57.7	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	
UE 5000  47.6	57.3	58.3	58.7	58.9	59.1	59.2	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	
UE 4500  49.7	60.3	61.5	61.9	62.2	62.4	62.6	62.7	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	
UE 4000  50.0	60.6	62.6	62.4	62.7	63.0	63.2	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.5	63.5	
UE 3500  51.5	62.9	64.2	64.6	65.0	65.3	65.6	65.6	65.6	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
UE 3000  53.2	65.5	67.0	67.6	68.1	68.4	68.6	68.7	68.7	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	
UE 2700  55.8	70.1	71.6	72.6	73.2	73.5	73.9	74.0	74.0	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	
UE 2700  57.5	73.5	75.5	76.6	77.3	77.6	78.2	78.3	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.7	78.7	78.7	
UE 1800  58.2	74.9	77.6	78.1	78.9	79.3	79.6	80.0	80.0	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	
UE 1500  59.3	76.8	79.1	81.6	81.4	81.5	82.5	82.6	82.6	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.3	83.3	
UE 1200  59.9	77.6	80.2	81.0	82.8	83.4	84.0	84.3	84.4	84.6	84.8	84.8	84.8	84.8	84.8	84.9	84.9	84.9	
UE 1000  60.3	78.5	81.3	83.1	84.2	84.9	85.5	85.9	86.0	86.3	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	
UE 900  60.4	78.8	81.7	83.5	84.7	85.4	86.1	86.5	86.6	86.9	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	
UE 800  60.5	79.3	82.2	84.2	85.5	86.3	87.0	87.6	87.8	88.2	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	
UE 700  60.5	79.7	82.7	84.9	86.3	87.2	88.1	88.9	89.0	89.5	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	
UE 600  60.6	79.9	83.0	85.4	87.0	88.1	89.1	90.2	90.4	91.3	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	
UE 500  60.6	80.1	83.4	85.9	87.0	89.1	90.3	91.6	91.9	92.6	93.2	93.3	93.5	93.5	93.6	93.6	93.6	93.6	
UE 400  60.7	80.4	83.7	86.4	88.5	90.0	91.5	93.2	93.7	94.6	95.3	95.5	95.7	95.8	95.8	95.8	95.8	95.8	
UE 300  60.7	80.4	83.8	86.6	88.8	90.4	92.2	94.1	94.6	95.7	96.6	96.8	97.0	97.2	97.2	97.3	97.3	97.3	
UE 200  60.7	80.4	83.8	86.6	88.9	90.5	92.4	94.6	95.2	96.5	97.6	97.9	98.2	98.3	98.4	98.5	98.5	98.5	
UE 100  60.7	80.4	83.8	86.6	88.9	90.5	92.4	94.7	95.3	96.7	97.9	98.3	98.7	99.0	99.2	99.4	99.4	99.4	
UE 0  60.7	80.4	83.8	86.6	88.9	90.5	92.4	94.7	95.3	96.7	97.9	98.3	98.8	99.0	99.4	100.0			

TOTAL NUMBER OF OBSERVATIONS: 7195

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GL 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	41.1	52.6	54.6	55.9	57.4	57.7	58.2	58.2	58.2	58.3	58.6	58.6	58.7	58.7	58.9	58.9	58.9	
GE 20000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.3	62.3	62.5	62.5	62.5	62.5	
GE 18000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.3	62.3	62.5	62.5	62.5	62.5	
GE 16000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.3	62.3	62.5	62.5	62.5	62.5	
GE 14000	43.1	55.2	57.8	59.5	61.0	61.3	61.7	61.7	61.7	61.8	62.2	62.3	62.3	62.5	62.5	62.5	62.5	
GE 12000	43.7	56.0	58.9	60.5	62.0	62.4	62.8	62.8	62.9	63.2	63.3	63.3	63.5	63.5	63.5	63.5	63.5	
GE 10000	44.5	57.3	60.2	62.2	63.7	64.0	64.5	64.5	64.5	64.6	64.9	65.1	65.1	65.3	65.3	65.3	65.3	
GE 9000	44.8	57.6	60.5	62.5	64.0	64.3	64.8	64.8	64.8	64.9	65.3	65.3	65.4	65.4	65.6	65.6	65.6	
GE 8000	45.9	59.6	62.6	64.6	66.1	66.5	67.0	67.0	67.0	67.1	67.4	67.4	67.5	67.5	67.7	67.7	67.7	
GE 7000	46.5	61.0	64.0	66.0	67.5	67.8	68.4	68.4	68.4	68.5	68.8	68.8	68.9	68.9	69.1	69.1	69.1	
GE 6000	46.8	61.6	64.7	66.9	68.4	69.7	69.2	69.2	69.2	69.4	69.7	69.7	69.8	69.8	70.0	70.0	70.0	
GE 5000	48.1	63.3	66.5	68.6	70.1	70.4	71.0	71.0	71.0	71.1	71.4	71.5	71.5	71.7	71.7	71.7	71.7	
GE 4500	50.3	67.7	70.4	73.0	74.5	74.8	75.8	75.9	75.9	76.0	76.3	76.3	76.5	76.5	76.7	76.7	76.7	
GE 4000	50.4	68.4	71.5	73.6	75.3	75.6	76.6	76.7	76.7	76.8	77.1	77.1	77.2	77.2	77.4	77.4	77.4	
GE 3500	51.9	70.9	74.1	76.5	78.0	78.3	79.4	79.4	79.4	79.5	79.8	79.8	79.9	79.9	80.1	80.1	80.1	
GE 3000	52.9	72.3	75.5	77.4	79.4	79.7	80.6	80.6	80.6	81.0	81.3	81.3	81.4	81.4	81.6	81.6	81.6	
GE 2500	54.9	75.6	79.1	81.6	83.1	83.4	84.6	84.7	84.7	84.8	85.2	85.3	85.3	85.5	85.5	85.5	85.5	
GE 2000	55.5	76.8	80.5	83.1	84.7	85.1	86.2	86.3	86.3	86.5	86.8	86.8	86.9	86.9	87.1	87.1	87.1	
GE 1600	56.1	77.6	81.4	84.2	85.8	86.1	87.3	87.4	87.4	87.5	87.8	87.8	88.0	88.0	88.2	88.2	88.2	
GE 1500	57.5	79.7	83.4	86.2	88.1	88.4	89.6	89.7	89.7	89.8	90.1	90.1	90.2	90.2	90.4	90.4	90.4	
GE 1200	58.1	80.3	84.1	86.9	88.7	89.0	90.2	90.3	90.3	90.4	90.8	90.8	90.9	90.9	91.1	91.1	91.1	
GE 1000	58.5	80.9	84.7	87.5	89.4	90.7	90.9	91.0	91.0	91.1	91.4	91.4	91.5	91.5	91.7	91.7	91.7	
GE 900	58.5	80.9	84.7	87.5	89.4	90.7	90.9	91.0	91.0	91.1	91.4	91.4	91.5	91.5	91.8	91.8	91.8	
GE 800	58.8	81.6	85.5	88.3	90.2	90.5	91.7	91.8	91.8	91.9	92.3	92.3	92.4	92.4	92.7	92.7	92.7	
GE 700	59.0	81.9	86.0	88.8	90.8	91.1	92.3	92.4	92.4	92.5	92.8	92.8	92.9	92.9	93.2	93.2	93.2	
GE 600	59.0	82.2	86.3	89.1	91.1	91.4	92.6	92.8	92.8	92.9	93.2	93.2	93.3	93.3	93.7	93.7	93.7	
GE 500	59.0	82.2	86.3	89.1	91.1	91.4	92.7	92.9	92.9	93.0	93.3	93.3	93.4	93.4	93.8	93.8	93.8	
GE 400	59.0	82.2	86.3	89.1	91.1	91.4	92.3	93.9	94.5	94.6	94.9	94.9	95.1	95.1	95.4	95.4	95.4	
GE 300	59.0	82.2	86.3	89.2	92.2	92.6	94.4	95.3	95.3	95.4	95.8	95.8	95.9	95.9	96.2	96.2	96.2	
GE 200	59.0	82.4	86.6	90.0	92.5	92.9	94.8	95.6	95.9	96.5	97.1	97.1	97.2	97.2	97.5	97.5	97.5	
GE 100	59.0	82.4	86.6	90.0	92.5	92.9	94.8	95.9	96.1	96.7	97.6	97.6	98.2	98.2	98.7	98.7	98.7	
GE 0	59.0	82.4	86.6	90.0	92.5	92.9	94.8	95.9	96.1	96.7	97.6	97.6	98.2	98.2	98.3	99.1	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0300-0500

CEILING IN FELT	VISIBILITY IN STATUTE MILES																	
	1 GE 10	2 GE 6	3 GE 5	4 GE 4	5 GE 3	6 GE 2	7 GE 1 1/2	8 GE 2	9 GE 1 1/2	10 GE 1 1/4	11 GE 1	12 GE 3/4	13 GE 5/8	14 GE 1/2	15 GE 5/16	16 GE 1/4	17 GE 0	
NC CEIL 1	36.4	50.3	51.6	53.3	54.5	54.7	55.3	55.7	55.7	56.1	56.1	56.1	56.1	56.1	56.1	56.3	56.5	
GE 20000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.5	59.7	
GE 18000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.5	59.7	
GE 16000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.5	59.7	
GE 14000	39.5	52.4	54.3	55.9	57.4	57.6	58.2	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.5	59.7	
GE 12000	39.9	53.1	55.1	56.7	58.2	58.4	58.9	59.6	59.6	60.0	60.0	60.0	60.0	60.0	60.0	60.3	60.5	
GE 10000	40.9	54.5	56.7	58.3	60.0	60.2	60.8	61.4	61.4	61.8	61.8	61.8	61.8	61.8	61.8	62.2	62.4	
GE 9000	41.2	54.8	57.0	58.6	60.3	60.5	61.1	61.7	61.7	62.2	62.2	62.2	62.2	62.2	62.2	62.5	62.7	
GE 8000	42.0	57.2	59.4	61.4	63.1	63.3	63.9	64.5	64.5	64.9	64.9	64.9	64.9	64.9	64.9	65.3	65.5	
GE 7000	43.4	58.6	61.2	63.4	64.8	65.1	65.6	66.2	66.2	66.7	66.7	66.7	66.7	66.7	66.7	67.0	67.2	
GE 6000	43.8	59.5	61.8	63.7	65.5	65.7	66.2	66.9	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.6	67.8	
GE 5000	44.9	61.7	64.1	66.1	68.7	68.2	68.7	69.4	69.4	69.8	69.8	69.8	69.8	69.8	69.8	70.1	70.3	
GE 4500	46.2	66.2	68.7	71.0	72.9	73.1	73.8	74.4	74.4	74.8	74.8	74.8	74.8	74.8	74.8	75.3	75.5	
GE 4000	48.5	67.1	69.6	71.8	73.8	74.0	74.6	75.4	75.4	75.8	75.8	75.8	75.8	75.8	75.8	76.2	76.5	
GE 3500	49.7	68.4	70.4	73.2	75.2	75.4	76.0	76.9	76.9	77.3	77.3	77.3	77.3	77.3	77.3	77.7	78.0	
GE 3000	50.6	70.2	72.8	75.2	77.1	77.3	78.0	78.9	78.9	79.4	79.4	79.4	79.4	79.4	79.4	79.5	79.8	
GE 2500	51.9	72.6	75.3	77.0	79.7	79.9	80.6	81.0	81.0	82.0	82.2	82.2	82.2	82.2	82.2	82.5	82.7	
GE 2000	52.7	74.4	77.2	79.7	81.7	81.9	82.8	83.8	83.8	84.2	84.3	84.3	84.3	84.3	84.3	84.6	84.8	
GE 1800	52.9	74.7	77.5	80.0	82.0	82.4	83.2	84.2	84.2	84.6	84.7	84.7	84.7	84.7	84.7	85.1	85.3	
GE 1500	53.3	75.7	78.6	81.3	83.3	83.7	84.5	85.5	85.5	85.9	86.0	86.0	86.0	86.0	86.0	86.3	86.6	
GE 1200	53.4	75.9	78.8	81.5	83.5	83.9	84.7	85.7	85.7	86.1	86.2	86.2	86.2	86.2	86.2	86.6	86.8	
GE 1000	53.5	76.3	79.4	82.0	84.1	84.4	85.3	86.2	86.2	86.7	86.8	86.8	86.8	86.8	86.8	87.1	87.3	
GE 900	53.5	76.9	81.0	82.8	84.8	85.2	86.0	87.0	87.0	87.4	87.5	87.5	87.5	87.5	87.5	87.8	88.1	
GE 800	54.1	77.8	81.1	84.0	86.0	86.2	87.2	88.2	88.2	88.6	88.7	88.7	88.7	88.7	88.7	89.0	89.2	
GE 700	54.8	78.6	81.8	84.9	86.9	87.2	88.2	89.1	89.1	89.6	89.7	89.7	89.7	89.7	89.7	90.0	90.2	
GE 600	54.8	79.0	82.3	85.5	87.5	87.8	88.6	89.6	89.6	90.2	90.3	90.3	90.3	90.3	90.3	90.6	90.9	
GE 500	54.8	79.4	82.8	86.0	88.3	88.6	89.7	91.0	91.0	91.4	91.5	91.5	91.5	91.5	91.5	91.8	92.0	
GE 400	54.8	79.6	83.4	86.7	89.1	89.5	90.8	92.0	92.0	92.5	92.6	92.6	92.6	92.6	92.6	92.7	93.0	
GE 300	54.8	79.7	83.8	87.1	89.7	90.2	92.2	93.7	93.7	94.0	94.7	95.5	95.5	95.5	95.8	95.8	96.0	
GE 200	54.8	79.7	83.8	87.1	89.7	90.2	92.2	93.7	94.1	95.1	96.0	96.2	96.2	96.2	96.8	97.4	97.8	
GE 100	54.8	79.7	83.8	87.1	89.7	90.2	92.2	93.7	94.1	95.1	96.0	96.5	97.1	97.3	98.5	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10 F	GE 6 E	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 1/8	GE 0	
NC CEIL	34.1	44.2	45.1	46.2	48.0	48.2	48.8	49.2	49.2	49.4	49.5	49.5	49.5	49.6	49.8	49.9		
GE 20000	35.4	46.6	47.8	49.2	51.5	51.8	52.5	53.1	53.1	53.2	53.3	53.3	53.4	53.5	53.7	53.9	54.0	
GE 18000	35.4	46.6	47.8	49.2	51.5	51.8	52.6	53.2	53.2	53.3	53.4	53.4	53.5	53.7	53.9	54.1		
GE 16000	35.4	46.6	47.8	48.0	49.4	51.6	51.9	52.6	53.2	53.2	53.3	53.4	53.4	53.5	53.7	53.9	54.1	
GE 14000	35.6	46.9	48.3	49.7	51.9	52.3	52.9	53.5	53.5	53.7	53.8	53.8	53.9	54.0	54.2	54.4		
GE 12000	36.7	48.4	49.8	51.3	53.8	54.1	54.7	55.4	55.4	55.6	55.7	55.7	55.8	55.9	56.1	56.3		
GE 10000	37.4	49.7	51.1	52.7	55.4	55.7	56.5	57.1	57.1	57.3	57.4	57.4	57.5	57.6	57.8	58.1		
GE 9000	37.5	49.8	51.2	52.8	55.5	55.8	56.6	57.2	57.2	57.4	57.5	57.5	57.6	57.7	58.0	58.2		
GE 8000	39.6	52.9	54.3	55.9	58.6	59.0	59.9	60.5	60.5	60.8	60.9	60.9	61.0	61.1	61.3	61.5		
GE 7000	41.0	54.4	55.8	57.4	60.1	60.5	61.5	62.2	62.3	62.5	62.6	62.6	62.7	62.8	63.0	63.2		
GE 6000	41.7	55.3	56.3	58.4	61.3	61.7	62.8	63.4	63.5	63.8	63.9	63.9	64.0	64.1	64.3	64.5		
GE 5000	43.0	56.9	58.4	60.1	63.1	63.7	64.7	65.4	65.6	65.8	65.9	65.9	66.0	66.1	66.3	66.6		
GE 4500	45.4	60.6	62.1	64.5	67.8	68.8	69.9	70.6	70.9	71.1	71.2	71.2	71.3	71.4	71.6	71.8		
GE 4000	45.4	60.6	62.7	64.6	68.0	68.9	70.0	70.8	71.0	71.2	71.3	71.3	71.4	71.5	71.7	71.9		
GE 3500	47.0	62.4	64.5	66.7	70.2	71.2	72.3	73.0	73.2	73.4	73.5	73.5	73.7	73.8	74.0	74.2		
GE 3000	48.4	64.7	67.1	69.4	72.9	73.9	74.9	75.7	75.9	76.1	76.2	76.2	76.3	76.5	76.7	76.9		
SL 2500	49.9	67.5	70.1	72.4	76.1	77.1	78.2	78.9	79.1	79.4	79.5	79.5	79.6	79.7	79.9	80.1		
GE 2000	51.4	69.8	72.5	74.7	78.5	79.6	80.6	81.4	81.6	81.8	81.9	81.9	82.0	82.2	82.4	82.6		
GE 1800	51.8	70.3	73.0	75.4	79.2	81.3	81.6	82.4	82.6	82.8	82.9	82.9	83.0	83.1	83.3	83.5		
GE 1500	52.3	71.4	74.6	77.0	80.9	81.9	83.3	84.2	84.4	84.6	84.7	84.7	84.8	84.9	85.2	85.4		
GE 1200	52.4	72.3	75.3	77.8	81.7	82.8	84.2	85.1	85.3	85.5	85.7	85.7	85.8	85.9	86.1	86.3		
GE 1000	52.6	73.5	76.6	79.1	83.0	84.2	85.6	86.5	86.7	86.9	87.2	87.2	87.4	87.5	87.7	88.0		
GE 900	53.1	74.2	77.2	79.8	83.7	84.6	86.2	87.1	87.3	87.5	87.8	87.8	88.1	88.2	88.4	88.6		
GE 800	53.2	74.6	77.8	81.4	84.3	85.5	86.9	97.7	88.0	88.2	88.5	88.5	88.7	88.8	89.0	89.2		
GE 700	53.2	74.8	79.1	80.6	84.5	85.7	87.1	88.0	88.2	88.4	88.7	88.7	88.9	89.0	89.2	89.5		
GE 600	53.3	74.9	78.3	80.9	85.1	86.2	87.8	88.6	89.0	89.2	89.6	89.6	89.8	89.9	90.1	90.3		
GE 500	52.3	74.9	78.3	81.0	85.5	86.9	88.5	89.6	89.8	90.0	90.3	90.3	90.5	90.6	90.9	91.1		
GE 400	53.5	75.4	78.7	81.7	86.7	88.1	89.9	91.4	91.6	92.3	92.8	92.8	93.0	93.2	93.4	93.7		
GE 300	53.5	75.4	78.7	81.7	86.6	88.6	90.8	92.4	92.8	93.9	94.6	94.6	95.1	95.3	95.7			
GE 200	53.5	75.4	78.7	81.7	86.9	86.7	91.0	92.6	93.1	94.4	95.6	95.7	96.0	96.3	96.9	97.4		
GE 100	53.5	75.4	78.7	81.7	86.6	88.7	91.0	92.7	93.2	94.6	96.0	96.2	96.9	97.3	98.1	99.0		
GE 0	53.5	75.4	78.7	81.7	86.9	86.7	91.0	92.7	93.2	94.6	96.0	96.2	96.9	97.3	98.4	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 1/8		
NC CEIL	42.5	51.6	52.6	54.6	54.9	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	
GE 20000	44.6	54.1	55.7	57.3	58.3	58.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	
GE 18000	44.6	54.2	55.8	57.4	58.4	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	
GE 16000	44.6	54.2	55.8	57.4	58.4	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	
GE 14000	44.6	54.2	55.8	57.4	58.4	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	
GE 12000	45.2	54.7	56.3	58.0	58.9	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	
GE 10000	46.0	56.0	57.7	59.4	60.4	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 9000	46.0	56.0	57.7	59.4	60.4	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 8000	47.6	58.5	62.4	62.3	63.5	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	
GE 7000	48.4	59.2	61.2	63.0	64.4	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	
GE 6000	49.7	59.8	61.8	63.7	65.1	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	
GE 5000	49.9	61.1	63.3	65.2	66.7	66.9	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	
GE 4500	51.9	62.9	64.9	66.6	70.3	70.6	70.6	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	
GE 4000	52.3	64.6	67.7	69.7	71.2	71.5	71.5	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
GE 3500	52.8	65.5	68.9	71.0	72.6	72.9	72.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
GE 3000	53.8	67.4	71.1	73.1	74.7	75.1	75.1	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	
GE 2500	56.0	70.5	74.4	76.4	78.5	78.9	78.9	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	
GE 2000	57.3	73.9	78.6	80.6	82.4	82.8	82.8	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	
GE 1800	58.8	75.8	81.0	82.7	84.5	84.9	84.9	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	
GE 1500	59.9	77.3	81.5	84.2	86.1	86.6	86.6	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	
GE 1200	60.3	78.1	82.4	85.2	87.1	87.6	87.6	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	
GE 1100	60.4	78.9	87.3	86.6	89.6	89.2	89.2	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	
GE 900	60.6	79.5	84.0	87.3	89.6	90.3	90.3	90.8	90.8	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	
GE 800	60.9	80.0	84.8	88.4	90.9	91.7	91.7	92.4	92.4	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	
GE 700	61.1	80.3	85.2	89.2	91.7	92.6	92.6	93.4	93.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	
GE 600	61.1	80.3	85.2	89.4	91.9	92.9	93.2	93.9	93.9	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	
GE 500	61.1	80.3	85.3	89.8	92.6	93.6	94.4	95.2	95.2	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	
GE 400	61.1	80.3	85.4	90.2	93.3	94.5	95.3	96.1	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	
GE 300	61.1	80.3	85.4	90.2	93.3	94.5	95.3	96.1	96.1	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	
GE 200	61.1	80.3	85.4	90.2	93.3	94.7	95.6	96.7	96.8	98.0	99.0	99.0	99.1	99.2	99.4	99.4	99.4	
GE 100	61.1	80.3	85.4	90.2	93.3	94.7	95.6	96.7	96.8	98.0	99.2	99.2	99.4	99.6	100.0	100.0	100.0	
GE 01	61.1	80.3	85.4	90.2	93.3	94.7	95.6	96.7	96.8	98.0	99.2	99.2	99.4	99.6	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: MAY HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1 0	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	43.0	50.0	50.5	51.9	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 20000	46.3	54.7	56.0	57.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 18000	46.3	54.7	56.0	57.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 16000	46.3	54.7	56.0	57.4	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 14000	46.3	54.7	56.1	57.5	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 12000	46.6	55.3	56.7	58.1	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 10000	48.2	57.3	59.9	60.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
GE 9000	48.3	57.4	59.0	60.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 8000	50.0	59.4	61.3	62.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 7000	50.9	60.9	62.8	64.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 6000	50.9	61.0	63.0	64.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 5000	51.8	62.6	64.7	66.3	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 4500	53.8	65.5	67.7	69.5	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 4000	54.7	67.3	69.0	71.4	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 3500	55.7	68.4	72.8	73.0	74.2	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 3000	57.1	70.5	73.1	75.4	76.7	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 2500	59.9	75.7	78.6	81.1	82.4	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 2000	62.0	79.2	82.5	84.9	86.3	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 1800	62.7	80.3	83.7	86.3	87.7	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1500	63.5	81.9	85.4	88.3	89.6	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1200	64.2	83.1	86.8	89.7	91.3	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1000	64.2	83.2	87.3	90.3	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 900	64.3	83.4	87.6	90.6	92.6	92.8	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 800	64.4	83.5	88.0	91.1	93.0	93.2	93.7	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 700	64.4	83.7	88.1	91.4	93.3	93.8	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 600	64.4	83.9	88.3	91.8	94.0	94.4	95.1	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 500	64.4	83.9	88.3	92.2	94.4	94.8	95.6	96.0	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 400	64.4	83.9	88.3	92.3	94.5	95.1	96.2	97.0	97.3	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 300	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.5	98.1	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 200	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.7	98.4	98.9	99.6	99.6	99.7	99.7	99.7	99.7	99.7
GE 100	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.8	98.5	99.0	99.8	99.8	99.9	99.9	99.9	99.9	99.9
GE 0	64.4	83.9	88.3	92.3	94.5	95.4	96.6	97.6	98.5	99.0	99.8	99.8	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: MAY HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10 0	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	41.9	47.7	48.5	50.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 20000	47.3	54.6	55.8	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 18000	47.3	54.6	55.8	57.3	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 16000	47.3	54.6	55.8	57.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 14000	47.3	54.6	55.8	57.6	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
GE 12000	47.6	55.2	56.3	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 10000	49.6	58.2	59.4	61.3	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 9000	49.6	58.2	59.4	61.3	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 8000	50.5	59.6	61.0	62.9	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 7000	52.3	61.4	62.9	65.1	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 6000	52.7	61.9	63.4	65.6	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 5000	53.9	63.3	65.4	67.5	69.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 4000	57.2	68.5	72.6	73.0	73.5	73.6	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 4000	57.8	69.5	71.9	74.4	74.9	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 3500	58.6	71.6	74.1	76.9	77.4	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 3000	60.1	74.6	77.3	80.3	81.0	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 2500	63.1	79.2	82.0	85.5	86.2	86.6	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2000	64.5	81.5	84.5	88.3	89.0	89.4	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 1800	64.7	81.8	84.8	88.6	89.4	89.7	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1500	65.5	82.7	85.8	89.7	90.5	90.9	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1200	65.8	83.8	86.9	90.8	91.6	91.9	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GL 1000	65.8	84.5	88.1	92.5	93.3	93.7	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 900	65.6	84.6	89.2	92.6	93.4	93.8	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 800	65.9	84.6	86.4	92.8	93.8	94.2	94.8	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 700	65.9	84.8	89.4	92.9	93.9	94.3	94.9	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	65.9	84.8	89.4	92.9	93.9	94.3	95.1	95.6	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 500	66.0	85.2	88.7	93.8	94.7	95.3	96.2	96.9	96.9	97.2	97.3	97.3	97.3	97.3	97.3	97.3
GE 400	66.0	85.2	88.7	93.8	94.8	95.4	96.5	97.4	97.4	97.8	98.2	98.3	98.3	98.3	98.3	98.3
GE 300	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	98.9	99.0	99.0	99.0	99.0	99.0
GE 200	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	98.9	99.0	99.2	99.4	99.4	99.4
GE 100	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	99.0	99.1	99.6	99.9	99.9	99.9
GE C1	66.0	85.2	88.7	93.8	94.8	95.5	96.6	97.7	97.8	98.3	99.0	99.1	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFAETAC  
AIR WEATHER SERVICE/MAR

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1800-2000

CEILING IN FELL	VISIBILITY IN STATUTE MILES																	
	GE 1 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NO CEIL	44.5	51.6	52.9	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	
GE 20000	49.9	58.2	60.3	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	
GE 18000	49.9	58.2	60.3	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	
GE 16000	49.9	58.2	60.3	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	
GE 14000	53.0	58.3	60.4	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	
GE 12000	51.4	60.0	62.4	63.5	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	
GE 10000	53.1	61.9	64.4	65.6	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	
GE 9000	53.1	61.9	64.4	65.6	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	
GE 8000	54.1	63.5	66.2	67.5	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.3	
GE 7000	54.8	64.6	67.3	68.6	68.9	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.5	
GE 6000	55.1	65.2	67.6	69.1	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	70.0	
GE 5000	55.9	67.1	69.8	71.1	71.4	71.7	71.7	71.9	71.9	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.3	
GE 4500	58.2	71.4	74.3	75.8	76.1	76.5	76.5	76.7	76.7	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.1	
GE 4000	58.8	72.5	75.5	77.0	77.4	77.8	77.8	78.1	78.1	78.2	78.3	78.4	78.4	78.4	78.4	78.5	78.5	
GE 3500	60.4	74.8	79.0	79.7	80.2	80.6	80.6	80.9	80.9	81.0	81.1	81.2	81.2	81.2	81.2	81.3	81.3	
GE 3000	60.9	75.7	79.0	81.1	81.6	82.2	82.2	82.4	82.4	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.8	
GE 2500	62.7	79.7	83.5	85.7	86.5	87.0	87.0	87.2	87.2	87.3	87.5	87.6	87.7	87.7	87.7	87.7	87.8	
GE 2000	63.9	81.4	85.5	87.0	88.7	89.4	89.4	89.6	89.6	89.7	89.9	90.0	90.1	90.1	90.1	90.1	90.2	
GE 1800	64.2	82.0	86.3	88.6	89.8	90.4	90.4	90.6	90.6	90.8	91.0	91.1	91.2	91.2	91.2	91.3	91.3	
GE 1500	64.5	82.6	86.4	89.4	90.3	91.0	91.0	91.3	91.3	91.5	91.7	91.8	92.0	92.0	92.0	92.0	92.2	
GE 1200	64.7	83.0	87.3	90.1	91.1	91.7	91.7	92.0	92.0	92.3	92.5	92.6	92.8	92.8	92.8	92.8	92.9	
GE 1000	64.8	83.3	87.6	90.5	91.6	92.3	92.4	92.9	92.9	93.1	93.3	93.4	93.5	93.5	93.5	93.5	93.6	
GE 900	64.8	83.3	87.6	90.6	91.7	92.4	92.5	93.0	93.0	93.2	93.4	93.5	93.6	93.6	93.6	93.6	93.7	
GE 800	64.8	83.3	87.7	90.8	91.8	92.5	92.6	93.1	93.1	93.3	93.5	93.7	93.9	93.9	93.9	94.0	94.0	
GE 700	64.9	93.4	97.8	91.0	92.0	92.7	92.8	93.4	93.4	93.7	93.9	94.0	94.2	94.2	94.2	94.3	94.3	
GE 600	64.9	93.5	98.1	91.2	92.3	92.9	93.0	93.7	93.7	93.9	94.1	94.2	94.4	94.4	94.4	94.4	94.5	
GE 500	64.9	83.7	88.3	91.6	92.8	93.7	93.8	94.7	94.7	95.1	95.4	95.5	95.8	95.8	95.8	95.8	95.9	
GE 400	64.9	83.8	88.4	91.9	93.2	94.1	94.4	95.5	95.5	96.2	96.8	96.9	97.2	97.2	97.2	97.3	97.3	
GE 300	64.9	83.8	88.4	91.9	93.7	94.6	94.9	96.2	96.3	97.3	98.0	98.1	98.4	98.5	98.5	98.6	98.6	
GE 200	64.9	83.8	88.4	91.9	93.7	94.6	95.2	96.6	96.8	97.7	98.4	98.5	98.9	99.0	99.0	99.1	99.1	
GE 100	64.9	83.8	88.4	91.9	93.7	94.6	95.2	96.6	96.8	97.7	98.4	98.5	99.0	99.1	99.1	99.1	99.5	
GE 0	64.9	83.8	88.4	91.9	93.7	94.6	95.2	96.6	96.8	97.7	98.4	98.5	99.1	99.2	99.5	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
LSAFLTAC  
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	41.5	51.6	52.5	54.9	56.1	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7
GE 20000	44.0	54.9	57.2	58.8	60.0	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5
GE 18000	44.0	54.9	57.2	58.0	60.0	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5
GL 16000	44.0	54.9	57.2	58.8	60.0	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5
GT 14000	44.0	54.9	57.2	58.0	60.0	60.4	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5
GE 12000	45.1	56.3	59.6	60.2	61.4	61.8	61.8	61.8	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9
GE 10000	46.7	58.3	60.5	62.3	63.4	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0
GE 9000	47.3	58.9	61.2	62.9	64.1	64.5	64.5	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6
GE 8000	48.6	60.8	62.4	65.2	66.3	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9
GE 7000	49.2	61.5	64.2	65.9	67.1	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6
GE 6000	49.6	62.3	64.9	66.7	67.8	68.3	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4
GE 5000	50.4	64.3	67.2	69.0	70.3	70.6	70.6	70.6	70.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9
GE 4500	52.9	66.7	71.9	73.8	75.2	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7
GE 4000	53.8	69.7	73.0	74.8	76.3	76.9	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0
GE 3500	55.8	72.9	76.3	78.3	79.8	80.3	80.5	80.5	80.5	80.5	80.9	80.9	80.9	80.9	80.9	80.9
GE 3000	56.1	74.3	78.0	80.1	81.6	82.2	82.4	82.4	82.4	82.4	82.7	82.7	82.7	82.7	82.7	82.7
GE 2500	57.3	77.0	80.9	83.2	84.7	85.3	85.6	85.6	85.6	85.6	85.9	85.9	85.9	85.9	85.9	85.9
GE 2000	59.2	79.9	84.1	86.6	88.1	88.6	88.9	88.9	88.9	88.9	89.2	89.2	89.2	89.2	89.2	89.2
GE 1800	59.6	80.4	84.8	87.4	88.9	89.5	89.8	89.8	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.1
GE 1500	59.7	80.6	85.2	86.1	89.7	90.2	90.5	90.5	90.5	90.5	90.8	90.8	90.8	90.8	90.8	90.8
GL 1200	59.9	80.9	85.3	88.5	90.1	90.6	91.0	91.0	91.0	91.0	91.4	91.4	91.4	91.4	91.4	91.4
GE 1000	60.2	81.3	86.1	89.0	90.6	91.2	91.5	91.5	91.5	91.5	91.8	91.9	91.9	91.9	91.9	91.9
GE 900	60.2	81.4	86.2	89.2	90.9	91.4	91.7	91.7	91.7	91.7	92.0	92.2	92.2	92.2	92.2	92.2
GE 800	60.3	81.7	86.8	89.8	91.5	92.0	92.4	92.4	92.4	92.4	92.7	92.8	92.8	92.8	92.8	92.8
GE 700	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.7	93.8	93.8	93.8	93.8	93.8
GE 600	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.7	93.8	93.8	93.8	93.8	93.8
GE 500	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.7	93.8	93.8	93.8	93.8	93.8
GE 400	60.3	81.9	87.3	90.3	92.0	92.6	93.1	93.1	93.1	93.1	93.7	93.8	93.8	93.8	93.8	93.8
GE 300	60.3	81.9	87.3	90.4	92.6	93.3	93.9	94.3	94.5	94.8	94.9	94.9	94.9	94.9	94.9	94.9
GE 200	60.3	82.4	88.0	91.6	94.1	94.9	95.6	96.7	97.3	98.2	98.6	98.6	98.6	98.6	98.6	98.6
GE 100	60.3	82.4	88.0	91.6	94.1	94.9	95.6	96.7	97.4	98.3	98.8	98.8	98.8	99.0	99.0	99.0
GE 0	60.3	82.4	88.0	91.6	94.1	94.9	95.6	96.7	97.4	98.3	98.8	98.8	99.0	99.0	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFAETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): ALL

CEILING		VISIBILITY IN STATUTE MILES																	
IN	FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
GE C ETL	40.9	50.0	51.2	52.5	53.5	53.7	53.9	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.3	
GE 10000	43.8	53.6	55.6	57.1	58.3	58.5	58.7	58.8	58.8	58.9	58.9	59.0	59.0	59.0	59.0	59.1	59.1	59.2	
GE 18000	43.8	53.8	55.7	57.2	58.3	58.5	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.2	
GE 16000	43.8	53.8	55.7	57.2	58.3	58.5	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.2	
GE 14000	43.8	53.8	55.7	57.2	58.4	58.6	58.8	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.2	59.2	59.3	
GE 12000	44.5	54.9	56.8	58.3	59.5	59.7	59.9	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.3	60.3	60.4	60.4	
GE 10000	45.8	56.7	58.6	60.3	61.5	61.7	62.0	62.1	62.1	62.2	62.3	62.3	62.3	62.3	62.3	62.4	62.4	62.5	
GE 9000	46.0	56.8	53.8	60.5	61.7	61.9	62.2	62.3	62.3	62.4	62.5	62.5	62.5	62.5	62.6	62.6	62.7	62.7	
GE 8100	47.4	58.9	61.1	62.6	64.1	64.4	64.6	64.8	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.2	
GE 7000	48.3	60.2	62.4	64.2	65.5	65.8	66.0	66.2	66.2	66.3	66.4	66.4	66.4	66.4	66.4	66.5	66.5	66.6	
GE 6000	48.7	60.8	63.1	64.8	66.2	66.4	66.7	66.9	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.3	
GE 5000	49.7	62.5	64.9	66.7	68.1	68.4	68.7	68.9	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.2	69.2	69.3	
GE 4500	52.2	66.6	69.2	71.2	72.6	73.0	73.3	73.6	73.6	73.8	73.8	73.9	73.9	73.9	73.9	74.0	74.0	74.1	
GE 4000	52.7	67.5	70.2	72.2	73.7	74.1	74.4	74.7	74.7	74.8	74.9	74.9	75.0	75.0	75.0	75.1	75.1	75.1	
GE 3500	54.0	69.4	72.2	74.4	75.9	76.3	76.7	77.0	77.0	77.2	77.3	77.3	77.3	77.3	77.4	77.4	77.5	77.5	
GE 3000	55.0	71.2	74.2	76.5	78.1	78.5	78.9	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.6	79.6	79.7	
GE 2500	57.0	74.7	79.0	80.5	82.2	82.6	83.1	83.4	83.4	83.5	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.9	
GE 2000	58.3	77.1	80.6	83.2	84.9	85.4	85.9	86.2	86.3	86.4	86.5	86.5	86.5	86.5	86.6	86.6	86.7	86.7	
GE 1800	58.9	77.9	81.5	84.2	85.9	86.4	86.9	87.3	87.3	87.4	87.5	87.6	87.6	87.6	87.6	87.7	87.7	87.8	
GE 1500	59.5	79.0	82.6	85.5	87.3	87.8	88.4	88.7	88.8	88.9	89.0	89.0	89.1	89.1	89.2	89.2	89.3	89.3	
GE 1200	59.9	79.7	83.4	86.3	88.1	88.6	89.2	89.6	89.6	89.8	89.9	89.9	89.9	89.9	90.0	90.1	90.1	90.1	
GE 1000	60.3	80.3	84.1	87.2	89.1	89.6	90.2	90.6	90.7	90.9	91.0	91.0	91.1	91.1	91.2	91.2	91.3	91.3	
GE 900	60.1	80.5	84.4	87.6	89.5	90.0	90.6	91.0	91.1	91.3	91.4	91.4	91.5	91.5	91.6	91.6	91.7	91.7	
GE 800	67.3	80.9	85.0	88.2	90.2	90.8	91.4	91.6	91.9	92.1	92.2	92.2	92.3	92.3	92.4	92.4	92.5	92.5	
GE 700	68.5	81.2	85.3	88.0	90.6	91.2	91.9	92.4	92.5	92.7	92.8	92.9	92.9	92.9	93.0	93.1	93.1	93.1	
GE 600	69.5	81.3	85.5	88.9	91.0	91.6	92.3	92.9	92.9	93.2	93.3	93.4	93.4	93.5	93.5	93.6	93.6	93.6	
GE 500	60.5	81.4	85.7	89.2	91.4	92.1	93.0	93.7	93.8	94.0	94.2	94.2	94.3	94.3	94.4	94.4	94.5	94.5	
GE 400	60.5	81.5	85.8	89.6	92.0	92.6	93.8	94.8	94.9	95.3	95.6	95.7	95.8	95.8	95.9	95.9	96.0	96.0	
GE 300	60.5	81.6	85.9	89.8	92.3	93.2	94.5	95.6	95.8	96.5	97.0	97.0	97.1	97.2	97.3	97.4			
GE 200	60.5	81.6	86.0	89.8	92.4	93.4	94.7	95.9	96.3	97.1	97.8	97.9	98.1	98.2	98.3	98.5			
GE 100	60.5	81.6	86.0	89.8	92.4	93.4	94.7	96.0	96.3	97.2	98.1	98.2	98.6	98.7	99.0	99.3	99.3	99.3	
GE 0	60.5	81.6	86.0	89.8	92.4	93.4	94.7	96.0	96.3	97.2	98.1	98.3	98.6	98.8	99.3	100.0			

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0000-0200

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639, STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES																	
IN	FEET	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GL 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NO CELL	38.0	49.6	51.3	52.6	54.1	54.2	54.8	55.3	55.4	56.1	56.3	56.3	56.6	56.6	56.8	56.9			
GE 20000	40.0	52.3	54.4	55.7	57.2	57.3	57.9	58.7	58.9	59.6	59.8	60.0	60.0	60.0	60.2	60.3			
GL 18000	40.0	52.3	54.4	55.7	57.2	57.3	57.9	58.7	58.9	59.6	59.8	60.0	60.0	60.0	60.2	60.3			
UF 16000	40.0	52.3	54.4	55.7	57.2	57.3	57.9	58.7	58.9	59.6	59.8	60.0	60.0	60.0	60.2	60.3			
GE 14000	40.1	52.7	54.8	56.0	57.6	57.7	58.2	59.0	59.2	59.9	60.1	60.1	60.3	60.3	60.6	60.7			
GE 12000	41.2	54.2	56.3	57.6	59.2	59.3	59.9	60.7	60.9	61.6	61.8	62.0	62.0	62.2	62.2	62.3			
GE 10000	42.4	55.4	57.6	58.8	60.6	60.7	61.2	62.0	62.2	62.9	63.1	63.1	63.3	63.3	63.6	63.7			
GF 9000	42.4	55.7	57.8	59.0	60.8	60.9	61.4	62.2	62.4	63.1	63.3	63.3	63.6	63.6	63.8	63.9			
GL 8000	45.0	59.7	60.0	63.2	65.0	65.2	65.8	66.6	66.8	67.4	67.7	67.7	67.9	67.9	68.1	68.2			
GE 7000	45.0	61.2	63.6	64.9	66.7	66.9	67.6	68.3	68.6	69.2	69.4	69.4	69.7	69.7	69.9	70.0			
GF 6000	46.1	61.9	64.4	66.0	67.9	68.1	68.9	69.7	69.9	70.6	70.8	70.8	71.0	71.0	71.2	71.3			
GE 5000	47.1	63.6	66.3	68.0	70.6	70.8	71.6	72.6	72.6	73.6	73.8	74.0	74.0	74.3	74.4				
GE 4500	49.2	67.1	70.1	72.0	74.6	74.8	75.6	76.6	76.8	77.6	77.8	78.0	78.0	78.3	78.4				
UF 4000	49.7	67.6	70.6	73.2	76.2	75.4	76.2	77.2	77.4	78.2	78.4	78.4	78.7	78.7	79.0	79.1			
GE 3500	50.6	69.4	72.4	75.1	77.1	77.3	78.1	79.1	79.3	80.1	80.3	80.3	80.6	80.6	80.9	81.0			
GE 3000	51.2	71.1	74.3	77.3	79.4	79.7	80.6	81.6	81.8	82.7	82.9	82.9	83.1	83.1	83.4	83.6			
GE 2500	51.8	72.0	75.2	78.2	80.3	80.6	81.6	82.6	82.8	83.7	83.9	83.9	84.2	84.2	84.6	84.7			
GE 2000	52.4	73.7	77.0	80.4	82.1	82.3	83.6	84.6	84.8	85.9	86.1	86.1	86.4	86.4	86.8	86.9			
GL 1800	52.6	74.2	77.6	80.6	82.7	82.9	84.1	85.1	85.3	86.4	86.7	86.7	87.0	87.0	87.3	87.4			
GE 1500	53.2	75.4	78.8	81.9	84.1	84.3	85.6	86.6	86.8	88.0	88.2	88.2	88.6	88.6	88.9	89.0			
GF 1200	53.8	76.0	79.3	82.6	84.8	85.0	86.2	87.2	87.4	88.7	88.9	88.9	89.2	89.2	89.6	89.7			
GE 12000	54.0	76.6	80.0	83.2	85.4	85.7	87.1	88.1	88.3	89.7	89.9	89.9	90.3	90.3	90.7	90.8			
GE 9000	54.4	77.2	80.8	84.0	86.6	86.4	87.9	88.9	89.1	90.4	90.7	90.7	91.1	91.1	91.4	91.6			
GE 8000	54.8	77.6	81.1	84.4	86.8	87.0	88.4	89.4	89.7	91.0	91.2	91.2	91.7	91.7	92.0	92.1			
GE 7000	55.2	78.2	81.9	85.6	88.0	88.2	89.7	90.7	90.9	92.2	92.4	92.4	92.9	92.9	93.2	93.3			
GE 6000	55.3	78.6	82.2	85.9	88.3	88.6	90.0	91.0	91.2	92.6	92.8	92.8	93.2	93.2	93.6	93.7			
GE 5000	55.6	79.0	82.7	86.6	89.1	89.3	90.9	91.9	92.1	93.4	93.7	93.7	94.1	94.1	94.4	94.6			
GE 4000	55.6	79.1	83.1	F7.1	89.8	90.0	91.6	92.9	93.1	94.4	94.7	94.7	95.1	95.1	95.4	95.6			
SC 3000	55.6	79.1	83.2	37.1	89.9	90.2	91.9	93.3	93.6	95.0	95.4	95.4	96.0	96.0	96.3	96.4			
GE 2000	55.6	79.1	83.2	87.2	89.9	90.2	92.0	93.8	94.2	95.9	96.3	96.3	97.0	97.0	97.3	97.4			
GE 1000	55.6	79.1	83.2	87.2	89.9	90.2	92.0	93.8	94.2	96.6	96.7	97.7	97.7	98.0	98.1	99.1			
GE 31	55.6	79.1	83.2	87.2	89.9	90.2	92.0	93.8	94.2	96.0	96.6	96.7	97.7	97.7	98.0	98.1	99.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/NAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0600-0800

CEILING IN FELT	VISIBILITY IN STATUTE MILES																	
	1	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	
	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	7/4	5/8	1/2	5/16	1/4	0		
NG CEIL	38.3	49.0	50.3	50.9	52.2	52.7	53.4	53.9	54.1	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	
GE 20000	39.7	51.4	52.1	53.7	55.1	55.6	56.3	56.8	57.0	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	
GE 18000	39.7	51.4	52.1	53.7	55.1	55.6	56.3	56.8	57.0	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	
GE 16000	39.7	51.4	52.1	53.7	55.1	55.6	56.3	56.8	57.0	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	
GE 14000	39.8	51.7	52.3	53.9	55.3	55.6	56.6	57.0	57.2	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	
GE 12000	40.2	52.2	53.9	54.4	55.9	56.3	57.1	57.6	57.8	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	
GE 10000	42.3	55.1	56.5	57.3	58.4	59.2	60.0	60.6	60.8	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	
GE 9000	42.6	55.8	57.4	58.0	59.4	59.9	60.7	61.2	61.4	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	
GE 8000	45.0	59.4	61.1	61.9	63.6	64.2	65.0	65.6	65.8	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	
GE 7000	46.6	61.2	62.9	63.8	65.4	66.1	67.0	67.7	67.9	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	
GE 6000	47.2	62.1	63.9	64.9	66.6	67.2	68.1	69.8	69.0	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	
GE 5000	48.4	64.2	66.0	67.2	69.0	69.7	70.7	71.4	71.7	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2	
GE 4500	56.6	67.2	68.1	70.6	72.4	73.1	74.1	75.0	75.2	75.4	75.8	75.8	75.8	75.8	75.8	75.8	75.8	
GE 4000	59.8	67.7	69.6	71.0	72.9	73.6	74.6	75.4	75.7	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
GE 3500	51.9	69.1	71.2	72.5	74.7	75.3	76.4	77.4	77.7	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	
GE 3000	52.2	69.8	71.9	73.4	75.3	76.0	77.1	78.1	78.3	78.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	
GL 2500	52.9	71.1	73.2	74.8	77.0	77.8	79.1	80.1	80.3	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	
GE 2000	53.5	72.9	75.1	76.5	79.1	79.9	81.0	82.2	82.4	82.8	83.4	83.4	83.4	83.4	83.4	83.4	83.4	
GE 1800	54.3	73.7	76.1	77.8	80.1	81.0	82.3	83.3	83.6	83.9	84.6	84.6	84.6	84.6	84.6	84.6	84.6	
GE 1500	54.9	74.8	77.6	79.4	81.9	83.0	84.3	85.3	85.6	85.9	86.6	86.6	86.6	86.6	86.6	86.6	86.6	
GE 1200	55.0	75.4	78.3	80.3	83.0	84.1	85.4	86.4	86.7	87.0	87.7	87.7	87.7	87.7	87.7	87.7	87.7	
GE 1000	56.0	77.1	80.1	82.1	84.8	86.1	87.7	88.8	89.0	89.3	90.0	90.0	90.2	90.2	90.2	90.2	90.2	
GE 900	56.1	77.3	80.6	82.6	85.2	86.6	88.1	89.2	89.4	89.8	90.4	90.4	90.7	90.7	90.7	90.7	90.7	
GE 800	56.6	78.2	81.4	83.4	86.3	87.7	89.2	90.3	90.6	90.9	91.6	91.6	91.8	91.8	91.8	91.8	91.8	
GE 700	56.6	78.3	81.6	83.6	86.7	88.1	89.7	90.9	91.1	91.4	92.1	92.1	92.3	92.3	92.3	92.3	92.3	
GE 600	56.6	78.6	81.8	83.9	87.1	89.6	90.1	91.4	91.7	92.0	92.7	92.7	92.9	92.9	92.9	92.9	92.9	
GE 500	56.6	78.8	82.0	84.1	87.4	89.1	90.7	92.4	92.7	93.0	93.7	93.7	93.9	93.9	93.9	93.9	94.0	
GE 450	56.6	78.8	82.0	84.2	87.7	89.3	91.1	93.1	93.3	94.1	94.8	94.8	95.1	95.1	95.2	95.3		
GE 300	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.7	93.9	94.9	95.7	95.9	96.7	96.7	96.8	97.0		
GE 200	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.6	94.0	95.4	96.6	97.0	97.9	97.9	98.0	98.4		
GE 100	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.9	94.1	95.7	96.8	97.2	98.4	98.7	99.0	99.8		
GE 51	56.6	78.8	82.0	84.2	87.9	89.6	91.4	93.9	94.1	95.7	96.8	97.2	98.4	98.7	99.0	100.0		

TOTAL NUMBER OF OBSERVATIONS: 903

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0900-1100

CEILING												VISIBILITY IN STATUTE MILES											
IN'	1	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
FEET	1	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	7/16	1/4	0						
NC LLIL	1	47.9	54.6	55.2	55.6	56.4	56.4	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
CE 200001	49.7	57.4	58.3	58.9	59.6	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
CE 180001	49.7	57.0	58.3	58.9	59.6	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
CE 160001	49.7	57.0	58.3	58.9	59.6	59.6	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
CE 140001	49.9	57.2	58.6	59.1	59.9	59.8	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
CE 120001	50.7	58.0	59.3	60.0	60.7	61.7	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
CE 100001	52.6	60.4	61.8	62.4	63.1	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
CE 90001	52.6	60.4	61.8	62.4	63.1	63.1	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
CE 80001	54.3	62.8	64.5	65.0	66.3	66.3	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
CE 70001	54.6	63.6	65.2	66.6	67.3	67.3	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
CE 60001	55.6	64.6	66.3	67.7	68.4	68.4	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
CE 50001	56.2	66.8	68.6	69.9	70.7	70.7	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
CE 45001	57.9	68.9	70.8	72.3	73.1	73.1	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
CE 40001	59.5	69.9	71.5	73.4	74.2	74.2	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
CE 35001	60.1	72.1	74.2	75.8	76.6	76.6	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
CE 30001	60.8	73.2	75.3	77.1	78.0	78.0	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
CE 25001	62.0	75.7	77.8	79.6	80.7	80.7	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
CE 20001	64.4	78.4	81.7	82.7	83.8	83.8	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
CE 180001	65.2	79.2	81.8	83.8	84.9	85.0	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
CE 150001	66.9	81.3	84.1	86.1	87.2	87.3	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
CE 120001	68.0	83.2	85.0	86.3	87.1	87.1	89.2	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
CE 100001	68.8	84.6	87.4	89.9	90.5	91.0	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
CE 90001	69.0	85.7	86.6	86.9	92.0	92.1	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
CE 80001	69.2	86.8	89.5	92.3	93.6	93.8	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
CE 70001	69.3	87.1	90.0	92.7	93.9	94.3	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
CE 60001	69.3	87.1	90.1	92.6	94.2	94.7	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
CE 50001	69.3	87.1	90.1	92.6	94.3	95.1	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
CE 40001	69.7	87.2	90.2	93.0	94.7	95.4	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
CE 30001	69.7	87.2	90.2	93.1	94.9	95.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
CE 20001	69.3	87.2	90.2	93.1	94.9	95.7	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
CE 10001	69.3	87.2	90.2	93.1	94.9	95.7	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
CE 01	69.3	87.2	90.2	93.1	94.9	95.7	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS**

STATION NUMBER: 726343 STATION NAME: ALPERA M

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS/DST: 1200-140

ITEM NUMBER OF SENSATIONS: 4

AD-A187 849

ALPENOM MICHIGAN REVISED UNIFORM SUMMARY OF SURFACE  
WEATHER OBSERVATIONS PARTS A-F(U) AIR FORCE  
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT

3/3

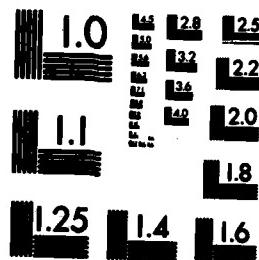
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OCT 87 USAFETAC DS-87/659

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH  
L-SAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATE MILES															
	10 6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0	
NC LEIL	50.0	52.9	53.7	54.9	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 20000	55.6	59.2	60.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 18000	55.6	59.2	60.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 16000	55.6	59.2	60.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 14000	55.8	59.4	60.6	61.9	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 12000	56.6	60.3	61.4	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 10000	57.8	61.7	62.8	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 9000	57.8	61.7	62.8	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 8000	54.7	64.9	66.0	67.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 7000	60.9	66.3	67.4	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 6000	61.6	67.2	68.3	70.0	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 5000	63.6	69.4	70.6	72.7	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 4500	66.2	72.9	74.0	76.2	77.0	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 4000	66.6	74.1	75.2	77.6	78.3	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 3500	68.7	76.6	78.0	80.3	81.1	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 3000	70.0	79.7	81.3	83.7	84.4	84.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 2500	72.8	83.3	85.1	87.9	89.0	89.1	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 2000	74.2	86.1	89.0	91.2	92.3	92.4	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 1800	74.9	87.1	89.0	92.3	93.7	93.8	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1500	75.4	88.0	90.4	94.1	95.6	95.8	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1200	75.8	86.3	90.9	94.0	96.1	96.3	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1100	76.0	88.9	91.4	95.2	96.9	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 900	76.0	88.9	91.6	95.3	97.1	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 800	76.0	89.0	91.7	95.4	97.3	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 700	76.0	89.0	91.7	95.6	97.4	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 600	76.0	89.1	91.8	95.7	97.6	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 500	76.0	89.3	92.2	96.1	98.0	98.3	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 400	76.0	89.3	92.2	96.2	98.1	98.6	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 300	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 200	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 100	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 0	76.0	89.3	92.2	96.3	98.2	98.7	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFMETAC  
AIR WEATHER SERVICE/NASC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1 GE 6	10 GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL 1 51.7	57.0	57.7	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 20000	56.0	62.2	62.9	65.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 18000	56.0	62.2	62.9	65.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 16000	56.0	62.2	62.9	65.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 14000	56.1	62.3	63.0	65.1	65.7	66.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 12000	57.0	63.8	64.4	66.6	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 10000	59.2	66.3	67.0	69.2	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 9000	59.2	66.3	67.0	69.3	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 8000	61.6	69.4	70.2	72.7	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 7000	62.6	71.1	71.9	74.3	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 6000	63.0	71.8	72.6	75.2	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 5000	63.9	73.2	74.2	77.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 4500	66.2	76.7	76.1	81.7	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 4000	66.8	77.6	79.1	82.8	83.9	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 3500	67.8	79.2	81.1	84.9	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3000	69.7	81.8	83.8	87.6	89.0	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 2500	70.9	83.8	86.0	90.2	91.7	91.8	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 2000	71.9	85.1	87.4	91.7	93.2	93.4	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 1800	72.3	85.7	88.0	92.2	94.1	94.3	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1500	72.9	86.7	89.0	93.3	95.3	95.6	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1200	73.0	87.1	89.4	93.8	95.8	96.0	96.3	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 1000	73.0	87.1	89.4	93.8	95.8	96.1	96.6	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 900	73.0	87.3	89.6	94.2	96.2	96.6	97.0	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 800	73.0	87.4	89.9	94.3	96.3	96.7	97.1	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 700	73.0	87.8	90.2	94.8	96.9	97.2	97.7	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 600	73.0	87.8	90.2	94.9	97.0	97.6	98.1	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 500	73.0	87.9	90.3	95.0	97.2	97.8	98.3	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 400	73.0	87.9	90.3	95.0	97.3	98.0	98.7	99.2	99.2	99.3	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	100.0
GE 0	73.0	87.9	90.3	95.0	97.3	98.0	98.9	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 2100-2300

TOTAL NUMBER OF OBSERVATIONS: 700

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN POLARIS(LST): ALL

CEILING IN FLEI	VISIBILITY IN STATUTE MILES																	
	1 GE 6	10 GE 5	4 GE 3	2 1/2 GE 2	1 1/2 GE 1	1 1/4 GE 3/4	1 GE 5/8	1/2 GE 5/16	1/4 GE 1/4	0 GE 0								
NO CEST	46.2	53.4	54.9	56.1	56.9	57.0	57.2	57.4	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.7	57.7	57.7
GE 20000	49.5	57.6	59.3	60.6	61.5	61.6	61.8	62.0	62.1	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3
GE 18000	49.5	57.6	59.3	60.6	61.5	61.6	61.8	62.0	62.1	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3
GE 16000	49.5	57.6	59.3	60.6	61.5	61.6	61.8	62.0	62.1	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3
GE 14000	49.7	57.8	59.5	60.8	61.7	61.8	62.0	62.2	62.3	62.4	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5
GE 12000	50.4	58.8	60.5	61.0	62.7	62.8	63.1	63.3	63.3	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.6
GE 10000	52.0	60.8	62.5	63.5	64.8	64.9	65.1	65.3	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 9000	52.1	61.0	62.7	64.0	64.9	65.0	65.3	65.5	65.6	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8
GE 8000	54.1	64.1	65.9	67.4	68.4	68.5	68.8	69.0	69.1	69.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3
GE 7000	55.0	65.4	67.3	68.8	69.8	69.9	70.3	70.5	70.5	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 6000	55.7	66.3	68.2	70.0	71.0	71.0	71.5	71.7	71.7	71.8	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0
GE 5000	57.0	68.2	70.2	72.1	73.3	73.4	73.8	74.0	74.1	74.2	74.3	74.3	74.3	74.3	74.3	74.4	74.4	74.4
GE 4500	59.1	71.2	73.5	75.6	76.6	77.0	77.4	77.7	77.8	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 4000	59.6	72.1	74.4	76.6	77.9	78.1	78.5	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 3500	61.0	74.2	76.7	79.0	80.3	80.5	81.0	81.3	81.3	81.4	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6
GE 3000	62.0	76.0	78.5	81.1	82.4	82.6	83.2	83.5	83.5	83.7	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9
GE 2500	63.2	78.0	80.7	83.4	84.9	85.1	85.8	86.1	86.2	86.3	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6
GE 2000	64.6	80.1	83.0	85.9	87.4	87.7	88.4	88.7	88.8	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.3
GE 1800	65.1	80.8	83.7	86.6	88.2	88.6	89.3	89.6	89.7	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.2
GE 1500	65.8	82.0	85.1	88.1	89.8	90.2	91.0	91.3	91.4	91.7	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9
GE 1200	66.2	82.7	85.6	88.8	90.6	91.0	91.8	92.2	92.3	92.6	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 1000	66.5	83.4	86.5	89.7	91.5	92.0	92.8	93.3	93.3	93.6	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9
GE 900	66.7	83.7	86.9	90.2	92.0	92.5	93.3	93.8	93.8	94.1	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4
GE 800	66.8	84.2	87.4	90.7	92.6	93.1	94.0	94.5	94.5	94.8	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1
GE 700	66.9	84.5	87.7	91.1	93.1	93.7	94.6	95.0	95.1	95.4	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.7
GE 600	66.9	84.6	87.9	91.3	93.4	94.0	94.9	95.4	95.5	95.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
GE 500	67.0	84.8	88.1	91.6	93.8	94.4	95.4	96.1	96.1	96.4	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
GE 400	67.0	84.9	88.3	91.9	94.1	94.9	96.0	96.6	96.6	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.6
GE 300	67.0	84.9	88.3	92.0	94.3	95.1	96.3	97.2	97.3	97.8	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.4
GE 200	67.0	84.9	88.3	92.0	94.3	95.1	96.5	97.6	97.8	98.3	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.1
GE 100	67.0	84.9	88.3	92.0	94.3	95.1	96.5	97.6	97.8	98.4	98.8	98.9	99.2	99.3	99.6	99.6	99.6	99.6
GE 01	67.0	84.9	88.3	92.0	94.3	95.1	96.5	97.6	97.8	98.4	98.8	98.9	99.2	99.4	99.7	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GL 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CLIL	43.8	58.9	62.5	64.7	65.7	65.8	66.3	66.6	66.6	66.6	66.9	66.9	67.0	67.0	67.1	67.1		
GE 20000	44.9	60.5	64.6	66.9	68.0	68.1	68.6	69.9	69.9	69.9	69.2	69.2	69.4	69.4	69.6	69.7		
GE 18000	45.1	60.8	64.8	67.1	68.2	68.3	68.8	69.1	69.1	69.1	69.5	69.5	69.6	69.6	69.8	69.9		
GE 16000	45.1	60.8	64.8	67.1	68.2	68.3	68.8	69.1	69.1	69.1	69.5	69.5	69.6	69.6	69.8	69.9		
GE 14000	45.4	61.1	65.2	67.4	68.5	68.6	69.1	69.5	69.5	69.5	69.8	69.8	69.9	69.9	70.1	70.2		
GE 12000	45.6	61.4	65.5	67.7	68.8	68.9	69.5	69.8	69.8	69.8	70.1	70.1	70.2	70.2	70.4	70.5		
SE 10000	47.5	63.6	68.1	70.3	71.4	71.5	72.0	72.4	72.4	72.4	72.7	72.7	72.8	72.8	73.0	73.1		
GE 9000	47.5	63.9	68.2	70.4	71.5	71.6	72.2	72.5	72.5	72.5	72.8	72.8	72.9	72.9	73.1	73.2		
GE 8000	48.7	65.9	72.3	72.7	73.8	74.0	74.6	74.9	74.9	74.9	75.3	75.3	75.4	75.4	75.6	75.7		
GE 7000	49.0	67.0	71.4	73.8	74.8	75.1	75.7	76.0	76.0	76.0	76.3	76.3	76.5	76.5	76.7	76.8		
GE 6000	49.4	67.6	72.3	74.6	75.8	76.0	76.7	77.0	77.0	77.0	77.3	77.3	77.4	77.4	77.6	77.7		
SE 5000	50.8	70.3	75.1	77.6	78.9	79.1	79.8	80.3	80.3	80.3	80.6	80.6	80.8	80.8	81.0	81.1		
GE 4500	51.9	72.9	78.0	80.6	82.3	82.5	83.1	83.7	83.7	83.7	84.0	84.0	84.1	84.1	84.3	84.4		
GE 4000	52.2	73.7	78.7	81.4	83.0	83.2	83.9	84.4	84.4	84.4	84.7	84.7	84.8	84.8	85.1	85.2		
GE 3500	52.4	74.5	80.0	82.7	84.3	84.5	85.2	85.7	85.7	85.7	86.1	86.1	86.2	86.2	86.5	86.6		
GE 3000	52.9	76.1	82.3	84.9	86.6	86.8	87.4	88.0	88.0	88.0	88.4	88.4	88.5	88.5	88.7	88.8		
GE 2500	53.7	77.4	83.5	86.5	88.1	88.6	89.4	89.9	89.9	89.9	90.3	90.3	90.4	90.4	90.6	90.8		
GE 2000	53.7	77.8	84.1	87.1	88.7	89.4	90.1	90.6	90.6	90.6	91.1	91.1	91.2	91.2	91.4	91.5		
GE 1800	53.8	78.1	84.4	87.4	89.0	89.7	90.4	91.0	91.0	91.0	91.4	91.4	91.5	91.5	91.7	91.8		
GE 1500	54.0	78.5	85.1	88.1	89.8	90.5	91.4	91.9	91.9	91.9	92.4	92.4	92.5	92.5	92.7	92.8		
GE 1200	54.2	78.8	85.4	86.5	90.2	91.0	91.8	92.4	92.4	92.4	92.8	92.8	92.9	92.9	93.1	93.2		
GE 1000	54.5	79.4	86.0	89.4	91.3	92.0	93.0	93.5	93.5	93.5	94.0	94.0	94.1	94.1	94.3	94.4		
GE 900	54.6	79.5	86.1	89.5	91.4	92.2	93.1	93.7	93.7	93.7	94.1	94.1	94.2	94.2	94.4	94.5		
GE 800	54.7	80.0	86.7	90.3	92.0	92.8	93.8	94.3	94.3	94.3	94.7	94.7	94.8	94.8	95.1	95.2		
GE 700	54.7	80.4	87.2	90.5	92.6	93.4	94.4	94.9	94.9	94.9	95.4	95.4	95.5	95.5	95.7	95.8		
GE 600	54.7	80.5	87.6	91.0	93.0	93.9	94.9	95.6	95.6	95.6	96.0	96.0	96.1	96.1	96.3	96.5		
GE 500	54.7	80.6	87.8	91.2	93.2	94.1	95.3	96.2	96.2	96.2	96.7	96.7	96.8	96.8	97.0	97.1		
GE 400	54.8	80.9	88.2	91.7	93.9	94.8	96.0	97.0	97.0	97.0	97.4	97.4	97.5	97.5	97.7	97.8		
GE 300	54.8	80.9	88.2	91.8	94.0	94.9	96.2	97.4	97.4	97.4	97.8	97.8	98.0	98.0	98.2	98.3		
GE 200	54.8	80.9	88.2	91.8	94.0	94.9	96.3	97.5	97.5	97.5	98.0	98.0	98.2	98.2	98.4	98.5		
GE 100	54.8	80.9	88.2	91.8	94.0	94.9	96.3	97.5	97.5	97.5	98.2	98.2	98.5	98.5	98.7	98.9		
GE 0	54.8	80.9	88.2	91.8	94.0	94.9	96.3	97.5	97.5	97.5	98.2	98.2	98.5	98.5	98.8	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL   38.2	52.4	55.5	57.1	60.0	60.6	61.5	61.6	61.8	62.5	63.0	63.0	63.4	63.4	63.4	63.4	64.0
GE 20000   39.4	54.6	58.2	60.0	63.0	63.7	64.6	65.2	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.6	67.6
GE 18000   39.4	54.6	58.2	60.0	63.0	63.7	64.6	65.2	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.6	67.6
GE 16000   39.4	54.6	58.2	60.0	63.0	63.7	64.6	65.2	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.6	67.6
GE 14000   39.6	54.8	58.4	60.2	63.2	63.9	64.8	65.4	66.0	66.7	66.7	67.3	67.3	67.3	67.3	67.8	67.8
GE 12000   40.1	55.6	59.4	61.2	64.2	64.8	65.8	66.3	66.3	67.0	67.6	68.3	68.3	68.3	68.3	68.8	68.8
GE 10000   41.4	58.0	61.9	63.4	66.9	67.5	68.5	69.2	69.9	70.5	70.5	71.2	71.2	71.2	71.2	71.7	71.7
GE 9000   41.6	58.2	62.2	64.1	67.1	67.7	68.7	69.5	69.5	70.1	70.8	71.4	71.4	71.4	71.4	71.9	71.9
GE 8000   43.3	60.4	64.4	66.5	69.5	70.1	71.1	71.9	71.9	72.7	73.4	74.1	74.1	74.1	74.1	74.7	74.7
GE 7000   44.1	61.6	65.6	67.6	70.6	71.3	72.3	73.1	73.1	73.9	74.6	75.3	75.3	75.3	75.3	75.9	75.9
GE 6000   44.4	62.2	66.5	68.5	71.6	72.3	73.2	74.1	74.1	74.8	75.6	76.2	76.2	76.2	76.2	76.9	76.9
GE 5000   45.2	63.8	68.1	70.2	73.5	74.2	75.2	76.0	76.0	76.8	77.5	78.2	78.2	78.2	78.2	78.8	78.8
GE 4500   46.3	66.2	70.9	73.5	77.0	77.6	78.6	79.5	79.5	80.2	81.0	81.6	81.6	81.6	81.6	82.3	82.3
GE 4000   47.0	67.4	72.0	74.7	79.2	78.8	79.6	80.6	80.6	81.4	82.2	82.8	82.8	82.8	82.8	83.4	83.4
GE 3500   47.6	68.8	73.5	76.3	79.8	80.4	81.4	82.3	82.3	83.0	83.8	84.4	84.4	84.4	84.4	85.1	85.1
GE 3000   48.1	70.2	75.1	78.0	81.5	82.2	83.1	84.0	84.0	84.7	85.5	86.1	86.1	86.1	86.1	86.8	86.8
GE 2500   48.2	71.2	76.2	79.2	82.8	83.4	84.4	85.3	85.3	86.0	86.8	87.4	87.4	87.4	87.4	88.1	88.1
GE 2000   48.5	71.9	77.0	80.1	83.7	84.4	85.4	86.3	86.3	87.1	87.8	88.5	88.5	88.5	88.5	89.1	89.1
GE 1800   48.5	72.0	77.2	80.3	83.9	84.6	85.6	86.6	86.6	87.3	88.1	88.7	88.7	88.7	88.7	89.4	89.4
GE 1500   49.1	73.0	78.2	81.3	84.8	85.6	86.7	87.6	87.6	88.5	89.2	89.9	89.9	89.9	89.9	90.5	90.5
GE 1200   49.4	73.5	78.8	82.0	85.7	86.5	87.5	88.5	88.5	89.5	90.2	90.9	90.9	90.9	90.9	91.5	91.5
GE 1000   49.5	73.6	79.0	82.3	85.9	86.7	87.8	88.6	88.6	89.8	90.5	91.2	91.2	91.2	91.2	91.8	91.8
GE 900   49.5	73.9	79.1	82.4	86.1	86.9	88.1	89.0	89.0	90.0	90.8	91.4	91.4	91.4	91.4	92.0	92.0
GE 800   49.7	74.3	79.6	82.9	86.7	87.4	88.7	89.7	89.7	90.6	91.4	92.0	92.0	92.0	92.0	92.7	92.7
GE 700   49.8	74.8	80.2	83.8	87.7	88.5	89.8	90.9	90.9	91.6	92.6	93.2	93.2	93.2	93.2	93.9	93.9
GE 600   49.9	74.9	80.4	84.1	88.3	89.0	90.5	91.6	91.6	92.6	93.3	94.0	94.0	94.0	94.0	94.6	94.6
GE 500   49.8	75.1	80.5	84.2	88.4	89.1	90.8	92.0	92.0	93.0	93.8	94.4	94.4	94.4	94.4	95.1	95.1
GE 400   49.9	75.4	80.9	84.6	86.9	89.7	91.9	93.2	93.2	94.4	95.2	95.8	95.8	95.8	95.8	96.5	96.5
GE 300   49.9	75.4	80.9	84.9	89.4	90.1	92.5	94.2	94.2	95.7	96.6	97.2	97.2	97.2	97.2	97.8	97.8
GE 200   49.9	75.4	81.0	85.1	89.6	90.3	92.7	94.5	94.5	96.0	97.0	97.7	97.7	97.7	97.7	98.5	98.5
GE 100   49.9	75.4	81.0	85.1	89.6	90.3	92.7	94.5	94.5	96.0	97.0	97.7	98.0	98.0	98.3	99.1	99.1
GE 0   49.6	75.4	81.0	85.1	89.6	90.3	92.7	94.5	94.5	96.0	97.0	97.1	98.0	98.0	98.7	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
L'SAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639G STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	CE 1	CE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	33.2	46.2	48.7	50.0	52.2	53.1	54.2	55.5	55.6	56.5	56.7	56.7	56.8	56.8	56.9	57.1	
GE 20000	35.2	49.5	52.3	54.3	56.1	57.2	58.5	59.9	60.0	61.0	61.2	61.2	61.5	61.5	61.6	61.8	
GE 18000	35.2	49.5	52.3	54.3	56.1	57.2	58.5	59.9	60.0	61.0	61.2	61.2	61.5	61.5	61.6	61.8	
GE 16000	35.2	49.5	52.3	54.3	56.1	57.2	58.5	59.9	60.0	61.0	61.2	61.2	61.5	61.5	61.6	61.8	
GE 14000	35.4	49.8	52.6	54.8	56.5	57.6	58.9	60.3	60.4	61.4	61.6	61.6	61.9	61.9	62.0	62.3	
GE 12000	36.1	50.5	53.3	55.6	57.2	58.4	59.7	61.1	61.2	62.2	62.5	62.5	62.8	62.8	62.9	63.1	
GE 10000	37.3	52.7	55.9	58.4	60.1	61.3	62.6	64.1	64.2	65.3	65.6	65.6	65.9	65.9	66.0	66.2	
GE 9000	37.3	52.9	56.0	58.6	60.3	61.6	62.9	64.4	64.5	65.6	65.9	65.9	66.2	66.3	66.6	66.6	
GE 8000	40.0	57.0	60.4	63.2	65.1	66.3	67.6	69.4	69.5	70.5	71.3	71.3	71.6	71.6	71.7	71.9	
GE 7000	41.1	58.5	62.0	64.9	66.9	68.2	69.5	71.2	71.3	72.4	73.1	73.1	73.4	73.4	73.5	73.8	
GE 6000	41.3	59.1	62.7	65.5	67.5	68.8	70.2	71.9	72.0	73.1	73.9	73.9	74.2	74.2	74.3	74.5	
GE 5000	42.6	61.6	65.4	68.2	70.3	71.7	73.1	74.5	74.9	76.1	76.9	76.9	77.2	77.2	77.3	77.5	
GE 4500	43.4	62.8	66.6	69.8	72.2	73.6	75.2	76.9	77.0	78.3	79.1	79.1	79.5	79.5	79.6	79.8	
GE 4000	43.9	63.7	67.4	70.6	73.0	74.6	76.0	77.7	77.8	79.1	80.0	80.0	80.3	80.3	80.4	80.6	
GE 3500	44.4	64.8	68.8	72.3	74.8	76.6	78.1	79.8	79.9	81.2	82.0	82.0	82.4	82.4	82.5	82.7	
GE 3000	45.1	66.0	70.1	73.8	76.7	78.4	79.9	81.6	81.7	83.0	83.9	83.9	84.2	84.2	84.3	84.5	
GE 2500	45.6	66.8	71.1	74.7	77.7	79.6	81.1	82.8	82.9	84.2	85.1	85.1	85.4	85.4	85.5	85.7	
GE 2000	45.8	67.2	71.7	75.4	78.6	80.4	82.2	83.9	84.0	85.3	86.1	86.1	86.5	86.5	86.6	86.8	
GE 1800	46.2	68.2	72.7	76.5	79.7	81.5	83.2	85.2	85.3	86.6	87.4	87.4	87.7	87.7	87.8	88.1	
GE 1500	46.5	69.1	73.6	77.5	80.9	82.7	84.5	86.5	86.6	87.8	88.7	88.7	89.0	89.0	89.1	89.4	
GE 1200	46.9	69.9	74.6	78.6	81.9	83.9	85.0	88.0	88.1	89.4	90.2	90.2	90.5	90.5	90.6	90.9	
GE 1000	47.3	70.4	75.3	79.4	82.8	84.7	87.3	89.4	89.5	90.9	91.7	91.7	92.0	92.0	92.2	92.4	
GE 900	47.5	70.8	75.6	79.6	83.2	85.3	87.8	89.9	90.0	91.4	92.3	92.3	92.6	92.6	92.7	92.9	
GE 800	47.7	71.1	76.0	80.2	83.8	85.8	88.4	90.4	90.5	91.9	92.8	92.8	93.1	93.1	93.2	93.4	
GE 700	47.7	71.3	76.2	80.4	84.1	86.2	89.0	91.3	91.4	92.8	93.7	93.7	94.0	94.0	94.1	94.3	
GE 600	47.7	71.4	76.5	80.6	84.4	86.6	89.5	91.7	91.8	93.2	94.1	94.1	94.4	94.4	94.5	94.7	
GE 500	47.8	71.5	76.6	81.2	85.1	87.2	90.2	92.6	92.8	94.2	95.1	95.1	95.4	95.4	95.5	95.7	
GE 400	47.8	71.6	76.7	81.4	85.3	87.5	90.6	93.3	93.5	95.3	96.2	96.2	96.6	96.6	96.7	96.9	
GE 300	47.8	71.7	76.8	81.5	85.4	87.7	91.1	93.8	94.0	95.9	96.9	96.9	97.3	97.3	97.5	97.7	
GE 200	47.8	71.7	76.8	81.6	85.5	88.0	91.3	94.0	94.4	96.5	97.4	97.4	98.1	98.2	98.4	98.6	
GE 100	47.8	71.7	76.8	81.6	85.5	88.0	91.3	94.0	94.4	96.5	97.4	97.4	98.2	98.3	98.7	99.0	
CE	0	47.8	71.7	76.8	81.6	85.5	88.0	91.3	94.0	94.4	96.5	97.4	97.4	98.2	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	1 1/2	GE 2	1 1/2	1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NC CEIL	44.1	54.0	56.7	58.5	59.9	60.1	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 20000	47.1	57.3	60.2	62.2	63.7	64.1	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 18000	47.1	57.4	60.3	62.3	63.8	64.2	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 16000	47.1	57.4	60.3	62.3	63.8	64.2	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 14000	47.4	57.7	60.6	62.6	64.1	64.5	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 12000	48.8	59.2	62.3	64.2	65.7	66.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 10000	50.6	61.4	64.5	66.6	68.1	68.5	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 9000	51.0	61.8	64.9	67.0	68.5	68.9	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 8000	52.3	63.3	66.9	69.0	70.5	71.2	71.9	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 7000	53.1	64.7	68.5	70.9	72.5	73.1	73.9	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 6000	53.7	65.3	69.0	71.6	73.2	73.9	74.9	75.2	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 5000	54.7	66.8	70.5	73.2	74.6	75.6	76.7	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 4500	55.8	68.4	72.2	75.1	77.0	77.6	78.7	78.9	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 4000	56.3	69.0	72.9	75.6	77.7	78.4	79.5	79.7	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 3500	56.9	70.3	74.4	77.4	79.6	80.2	81.3	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 3000	58.0	71.9	76.1	79.4	81.5	82.2	83.2	83.4	83.4	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 2500	58.3	72.4	76.9	80.3	82.7	83.3	84.5	84.7	84.7	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 2000	59.1	73.9	78.4	81.8	84.2	84.8	86.2	86.5	86.5	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 1800	59.2	74.3	78.9	82.6	85.2	85.8	87.2	87.4	87.4	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 1500	59.9	75.5	87.4	88.2	87.0	87.6	89.0	89.2	89.2	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1200	60.8	77.3	82.3	86.3	89.4	90.1	91.5	91.7	91.7	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 1000	61.3	78.6	83.7	87.8	91.0	91.7	92.1	93.3	93.4	93.5	93.8	93.8	93.9	93.9	93.9	93.9	93.9
GE 900	61.5	79.0	84.3	88.6	91.8	92.6	94.0	94.2	94.3	94.4	94.6	94.6	94.7	94.7	94.7	94.7	94.7
GE 800	61.8	79.5	84.7	89.0	92.4	93.1	94.8	95.1	95.2	95.3	95.5	95.5	95.7	95.7	95.7	95.7	95.7
GE 700	61.8	79.5	86.7	90.0	92.4	93.1	94.9	95.2	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 600	61.8	79.6	89.8	90.2	92.7	93.4	95.5	95.7	95.8	95.9	96.1	96.1	96.3	96.3	96.3	96.3	96.3
GE 500	61.8	79.8	85.1	89.5	93.2	94.0	96.0	96.3	96.5	96.7	97.0	97.0	97.2	97.2	97.2	97.2	97.2
GE 400	61.8	79.8	85.1	89.5	93.7	94.7	97.0	97.4	97.5	97.8	98.3	98.3	98.5	98.5	98.5	98.5	98.5
GE 300	61.8	80.0	85.4	89.9	94.3	95.4	97.6	98.2	98.3	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2
GE 200	61.8	80.0	85.4	89.9	94.4	95.5	97.7	98.5	98.6	98.9	99.5	99.5	99.7	99.7	99.7	99.7	99.7
GE 100	61.8	80.0	89.4	89.9	94.4	95.5	97.7	98.5	98.6	98.9	99.5	99.5	99.7	99.7	99.7	99.7	99.7
GE	61.8	80.0	85.4	89.9	94.4	95.5	97.7	98.5	98.6	98.9	99.5	99.5	99.7	99.7	99.7	99.7	99.7
																	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NO CEIL	48.4	56.9	59.0	60.0	62.2	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	
GE 20000	52.0	61.6	63.9	66.2	68.2	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	
GE 18000	52.0	61.6	63.9	66.2	68.2	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	
GE 16000	52.0	61.6	63.9	66.2	68.2	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	
GE 14000	52.0	61.7	64.0	66.3	68.3	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	
GE 12000	53.0	62.9	65.2	67.5	69.5	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	
GE 10000	55.6	66.0	68.3	70.0	72.7	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	
GE 9000	55.6	66.6	68.9	71.3	73.3	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	
GE 8000	57.1	68.1	70.6	73.1	75.4	75.5	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	
GE 7000	57.4	68.9	71.5	74.0	76.2	76.3	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	
GE 6000	57.6	69.2	71.9	74.4	76.7	76.8	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	
GE 5000	58.6	70.5	73.2	75.8	78.2	78.3	78.6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	
GE 4500	59.7	72.0	75.3	78.0	80.4	80.5	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	
GE 4000	60.3	72.8	75.0	76.7	81.7	81.8	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	
GE 3500	61.8	73.7	77.0	79.7	82.7	82.8	83.1	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	
GE 3000	62.2	76.8	79.1	81.8	84.9	85.1	85.4	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	
GE 2500	63.1	78.4	82.2	85.5	88.9	89.1	89.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
GE 2000	63.9	79.4	83.1	86.7	90.1	90.3	90.8	91.5	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	
GE 1800	64.1	80.0	84.0	87.6	91.4	91.6	92.0	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	
GE 1500	64.6	81.0	84.9	89.2	93.0	93.3	93.9	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	
GE 1200	64.7	81.6	85.6	90.0	94.0	94.3	94.8	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	
GE 1000	64.9	81.9	86.0	90.4	94.5	95.1	95.7	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	
GE 900	65.1	82.3	86.3	90.9	94.5	95.5	96.5	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
GE 800	65.2	82.6	86.7	91.2	95.3	95.8	96.9	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	
GE 700	65.2	82.6	86.7	91.2	95.4	95.9	97.1	97.6	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
GE 600	65.2	82.7	86.8	91.3	95.6	96.1	97.3	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	
GE 500	65.2	82.7	86.9	91.6	96.0	96.6	97.8	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	
GE 400	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 300	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 200	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 100	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 0	65.2	82.9	87.1	91.8	96.5	97.1	98.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1500-1700

CEILING IN FEET	GE 1 10	VISIBILITY IN STATUTE MILES															
		GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE C	
NG CEIL	50.1	57.3	59.1	60.2	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	
GE 20000	54.4	62.9	65.6	67.7	68.6	68.6	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
GE 18000	54.4	62.9	65.6	67.7	68.6	68.6	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
GE 16000	54.4	62.9	65.6	67.7	68.6	68.6	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
GE 14000	54.6	63.4	66.3	68.3	69.1	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	
GE 12000	55.2	64.2	67.1	69.1	70.1	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	
GE 10000	56.9	66.2	69.1	71.3	72.3	72.5	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	
GE 9000	57.1	66.7	69.6	71.7	72.7	72.9	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
GE 8000	58.1	67.8	71.0	73.2	74.2	74.4	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	
GE 7000	58.3	68.4	71.7	74.0	75.2	75.4	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	
GE 6000	58.7	68.6	72.2	74.4	75.6	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	
GE 5000	60.5	71.1	74.4	76.9	78.1	78.4	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	
GE 4500	61.8	73.0	76.5	79.0	80.4	80.8	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	
GE 4000	62.9	74.4	77.8	80.4	82.3	82.6	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	
GE 3500	64.3	76.0	79.6	82.4	84.5	84.8	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	
GE 3000	65.5	77.7	81.6	84.5	86.7	87.0	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	
GE 2500	67.4	80.3	84.5	87.6	90.1	90.5	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	
GE 2000	68.5	81.6	86.1	89.2	92.0	92.5	93.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	
GE 1800	68.7	81.9	86.6	89.8	92.7	93.1	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	
GE 1500	68.9	82.4	87.0	90.3	93.3	93.9	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
GE 1200	69.0	82.7	87.4	90.8	93.6	94.4	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	
GE 1000	69.0	83.1	89.3	91.6	94.8	95.5	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	
GE 900	69.0	83.2	86.5	91.8	95.1	95.7	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
GE 800	69.0	83.2	88.5	91.9	95.2	96.1	97.3	97.8	97.8	98.0	98.0	98.0	98.1	98.1	98.1	98.1	
GE 700	69.0	83.3	88.6	92.0	95.4	96.6	97.7	98.3	98.3	98.4	98.4	98.4	98.5	98.5	98.5	98.5	
GE 600	69.0	83.3	88.6	92.3	95.6	96.8	98.1	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9	
GE 500	69.0	83.4	88.7	92.8	96.2	97.4	98.7	99.4	99.4	99.6	99.6	99.6	99.7	99.7	99.7	99.7	
GE 400	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 300	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 200	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 100	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	
GE 0	69.0	83.4	88.7	92.9	96.3	97.5	98.8	99.5	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 1 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	49.0	55.8	57.8	59.6	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	
GE 2000	54.4	62.2	64.6	67.6	68.7	68.7	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	
GE 1800	54.4	62.2	64.6	67.6	68.7	68.7	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	
GE 1600	54.4	62.2	64.6	67.6	68.7	68.7	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	
GE 1400	54.6	62.5	64.9	68.3	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	
GE 1200	55.1	62.9	65.5	68.5	69.6	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	
GE 1000	57.2	66.2	68.9	72.0	73.1	73.1	73.4	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	
GE 900	57.5	66.6	69.2	72.4	73.4	73.4	73.8	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	
GE 800	59.7	69.4	72.2	75.0	76.8	76.8	77.1	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	
GE 700	59.8	70.2	73.0	76.6	77.8	77.8	78.2	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	
GE 600	60.1	70.6	73.7	77.2	78.6	78.6	78.9	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	
GE 500	61.6	73.2	76.5	80.1	81.5	81.7	82.0	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	
GE 450	63.2	75.8	79.0	83.1	84.5	84.7	85.1	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	
GE 400	63.8	76.7	80.0	84.2	85.8	86.0	86.3	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	
GE 350	64.6	78.4	82.0	86.5	88.2	88.5	88.8	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	
GE 300	65.4	79.8	84.0	88.5	90.4	90.8	91.1	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	
GE 250	65.9	80.6	84.9	89.7	91.8	92.3	92.7	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	
GE 200	66.5	81.7	86.1	90.9	93.1	93.5	94.0	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	
GE 180	66.8	82.2	86.6	91.5	93.8	94.2	94.6	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	
GE 150	67.3	83.0	87.5	92.5	94.7	95.2	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	
GE 1200	67.3	83.0	87.6	92.6	94.9	95.4	95.8	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
GE 1000	67.3	83.1	87.8	92.6	95.3	95.7	96.1	96.7	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	
GE 900	67.3	83.3	88.1	93.2	95.5	96.2	96.7	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	
GE 800	67.3	83.5	89.4	93.7	96.2	96.7	97.1	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	
GE 700	67.3	83.7	88.5	93.8	96.5	96.9	97.3	97.8	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	
GE 600	67.3	83.9	88.7	94.2	96.0	97.3	97.8	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	
GE 500	67.3	83.9	88.7	94.3	97.0	97.6	98.2	98.8	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	
GE 400	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.2	99.2	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
GE 300	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 200	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 100	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
GE 0	67.3	83.9	88.7	94.5	97.4	98.1	98.6	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-84  
MONTH: JUL HOURS(LST): 2100-2300

CEILING	VISIBILITY IN STATUTE MILES																	
	IN	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 3/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL 1 NR+F	59.1	63.1	62.3	63.7	64.1	64.5	64.6	64.6	64.9	65.1	65.2	65.2	65.3	65.3	65.3	65.3	65.3	
GE 20000	52.6	62.5	64.5	67.1	69.4	69.9	70.4	70.9	71.2	71.3	71.4	71.4	71.5	71.5	71.5	71.5	71.5	
GE 18000	52.6	62.5	64.5	67.1	69.4	69.9	70.4	70.9	71.2	71.3	71.4	71.4	71.5	71.5	71.5	71.5	71.5	
GE 16000	52.6	62.5	64.5	67.1	69.4	69.9	70.4	70.9	71.2	71.3	71.4	71.4	71.5	71.5	71.5	71.5	71.5	
GE 14000	52.9	62.8	64.8	67.4	69.7	70.2	70.8	71.2	71.2	71.5	71.6	71.6	71.7	71.7	71.8	71.8	71.8	
GE 12000	53.3	63.4	65.5	68.1	70.3	70.5	71.4	71.6	71.8	72.2	72.3	72.4	72.4	72.5	72.5	72.5	72.5	
GE 10000	54.9	65.5	67.6	73.5	72.9	73.4	74.3	74.7	74.7	75.1	75.2	75.2	75.3	75.3	75.4	75.4	75.4	
GE 9000	54.9	65.5	67.6	70.0	73.1	73.7	74.5	74.9	75.3	75.4	75.4	75.5	75.5	75.6	75.6	75.6	75.6	
GE 8000	56.0	67.4	69.8	73.0	75.5	76.0	76.9	77.3	77.3	77.6	77.7	77.8	77.8	78.0	78.0	78.0	78.0	
GE 7000	56.3	68.5	71.0	74.2	76.8	77.3	78.2	78.6	78.6	79.0	79.0	79.1	79.1	79.2	79.2	79.2	79.2	
GE 6000	56.9	59.1	71.6	74.6	77.5	78.1	78.9	79.4	79.4	79.7	79.8	79.9	79.9	80.0	80.0	80.0	80.0	
GE 5000	57.6	70.9	73.3	77.1	79.4	80.4	81.3	81.8	81.8	82.2	82.3	82.3	82.4	82.4	82.5	82.5	82.5	
GE 4500	58.8	73.1	76.1	75.5	82.3	82.8	83.7	84.2	84.2	84.5	84.6	84.6	84.7	84.7	84.8	84.8	84.8	
GE 4000	59.7	73.4	76.6	79.9	P2.8	P3.3	P4.2	P4.7	P4.7	P5.1	P5.2	P5.3	P5.3	P5.4	P5.4	P5.4	P5.4	
GE 3500	60.3	75.1	78.5	81.8	84.8	85.4	86.3	86.9	86.9	87.2	87.3	87.4	87.4	87.5	87.5	87.5	87.5	
GE 3000	60.8	77.0	80.9	84.3	87.5	88.4	89.5	90.0	90.0	90.3	90.4	90.5	90.5	90.6	90.6	90.6	90.6	
GE 2500	61.3	77.6	82.2	P5.6	89.2	90.2	91.3	91.8	91.8	92.2	92.3	92.3	92.4	92.4	92.5	92.5	92.5	
GE 2500	61.6	78.7	83.2	P6.8	90.5	91.5	92.9	93.4	93.4	93.8	93.9	94.0	94.0	94.1	94.1	94.1	94.1	
GE 1800	62.0	79.2	83.8	97.3	91.1	92.0	93.4	94.0	94.0	94.3	94.4	94.5	94.5	94.6	94.6	94.6	94.6	
GE 1500	62.6	79.9	84.5	88.1	91.8	92.8	94.2	94.7	94.7	95.1	95.2	95.3	95.3	95.4	95.4	95.4	95.4	
GE 1200	62.9	80.2	84.8	92.4	92.2	93.1	94.5	95.1	95.1	95.4	95.5	95.5	95.6	95.7	95.7	95.7	95.7	
GE 1000	63.0	80.6	85.3	98.8	92.6	93.5	94.9	95.5	95.5	95.8	95.9	95.9	96.0	96.0	96.1	96.1	96.1	
GE 900	63.0	81.0	85.6	89.1	92.9	93.9	95.3	95.8	95.8	96.1	96.2	96.3	96.3	96.5	96.5	96.5	96.5	
GE 800	63.0	81.2	85.6	89.4	93.1	94.1	95.5	96.0	96.0	96.3	96.5	96.6	96.6	96.7	96.7	96.7	96.7	
GE 700	63.0	81.2	85.8	89.4	93.1	94.1	95.5	96.0	96.0	96.3	96.5	96.5	96.6	96.6	96.7	96.7	96.7	
GE 600	63.0	81.3	86.2	P9.0	93.7	94.6	96.0	96.7	96.7	97.0	97.1	97.2	97.2	97.3	97.3	97.3	97.3	
GE 500	63.0	81.3	86.5	90.1	94.4	95.4	97.4	98.7	98.7	99.1	99.4	99.4	99.5	99.5	99.6	99.6	99.6	
GE 400	63.0	81.3	86.5	90.1	94.4	95.4	97.1	98.1	98.1	98.4	98.5	98.5	98.6	98.6	98.7	98.7	98.7	
GE 300	63.0	81.3	86.5	90.1	94.4	95.4	97.2	98.3	98.3	98.7	98.8	98.8	98.9	98.9	99.0	99.0	99.0	
GE 200	63.0	81.3	86.5	90.1	94.4	95.4	97.3	98.5	98.5	98.9	99.0	99.0	99.1	99.1	99.2	99.2	99.2	
GE 100	63.0	81.3	86.5	90.1	94.4	95.4	97.4	98.7	98.7	99.1	99.4	99.4	99.5	99.5	99.6	99.6	99.6	
GE 0	63.0	81.3	86.5	90.1	94.4	95.4	97.4	98.7	98.7	99.1	99.4	99.4	99.5	99.5	99.6	99.6	99.6	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
LAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): ALL

VISIBILITY IN STATUTE MILES																	
CEILING	IN	GE 1	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1 1/4	GE 0
FEET	1	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1 1/4	0
NC CEIL	1	44.4	54.9	57.4	59.2	60.6	60.9	61.4	61.6	61.6	61.9	62.0	62.0	62.1	62.1	62.1	62.2
GE 20000	1	47.5	58.9	61.8	64.1	65.7	66.1	66.7	67.0	67.1	67.3	67.5	67.5	67.6	67.6	67.7	67.8
GE 18000	1	47.5	58.9	61.8	64.1	65.7	66.1	66.7	67.1	67.1	67.3	67.5	67.5	67.6	67.6	67.7	67.8
GE 16000	1	47.5	58.9	61.8	64.1	65.7	66.1	66.7	67.1	67.1	67.3	67.5	67.5	67.6	67.6	67.7	67.8
GE 14000	1	47.7	59.2	62.1	64.4	66.0	66.5	67.0	67.4	67.4	67.7	67.8	67.8	68.0	68.0	68.1	68.2
GE 12000	1	48.4	60.0	63.0	65.2	66.9	67.3	67.9	69.3	69.3	69.5	69.7	69.7	69.9	69.9	69.9	69.9
GE 10000	1	50.2	62.5	65.5	68.0	69.7	70.1	70.8	71.2	71.2	71.4	71.6	71.6	71.8	71.8	71.8	71.9
GE 9000	1	50.3	62.8	65.9	68.3	70.0	70.4	71.1	71.5	71.5	71.8	72.0	72.0	72.1	72.1	72.2	72.3
GE 8000	1	51.9	64.9	68.2	70.8	72.6	73.7	74.2	74.2	74.2	74.5	74.8	74.8	74.9	74.9	75.0	75.1
GE 7000	1	52.4	66.0	69.3	72.0	73.9	74.3	75.0	75.5	75.5	75.8	76.1	76.1	76.2	76.2	76.3	76.4
GE 6000	1	52.8	66.5	70.0	72.0	74.6	75.0	75.3	76.3	76.3	76.6	76.8	76.8	77.0	77.0	77.0	77.2
GE 5000	1	54.0	68.5	72.1	74.9	76.9	77.4	78.2	78.6	78.6	79.1	79.3	79.3	79.5	79.5	79.6	79.6
GE 4500	1	55.1	70.5	74.3	77.3	79.5	80.0	80.8	81.4	81.4	81.7	82.0	82.0	82.1	82.1	82.2	82.3
GE 4000	1	55.7	71.4	75.2	78.2	80.6	81.1	81.9	82.4	82.5	82.8	83.1	83.1	83.2	83.2	83.3	83.4
GE 3500	1	56.4	72.7	76.7	79.9	82.3	82.9	83.7	84.3	84.3	84.6	84.9	84.9	85.1	85.1	85.1	85.3
GE 3000	1	57.2	74.3	78.6	81.9	84.5	85.1	85.7	86.5	86.5	86.9	87.2	87.2	87.3	87.3	87.4	87.5
GE 2500	1	57.9	75.6	80.2	83.6	86.4	87.1	88.0	88.7	88.7	89.0	89.3	89.3	89.4	89.4	89.5	89.6
GE 2000	1	58.4	76.5	81.2	84.7	87.6	88.4	89.4	90.1	90.1	90.4	90.7	90.7	90.9	90.9	91.0	91.1
GE 1800	1	58.7	77.0	81.8	85.4	88.3	89.1	90.1	90.8	90.8	91.2	91.5	91.5	91.6	91.6	91.7	91.8
GE 1500	1	59.1	77.8	82.7	86.4	89.4	90.2	91.3	92.0	92.0	92.4	92.7	92.7	92.8	92.8	92.9	93.0
GE 1200	1	59.4	78.4	83.3	87.2	90.3	91.1	92.2	92.9	92.9	93.3	93.6	93.6	93.8	93.8	93.9	93.9
GE 1000	1	59.6	78.9	82.9	87.8	91.0	91.9	93.1	93.8	93.9	94.2	94.5	94.5	94.7	94.7	94.8	94.9
GE 900	1	59.7	79.1	84.2	88.2	91.4	92.3	93.5	94.3	94.3	94.7	95.0	95.0	95.2	95.2	95.3	95.3
GE 800	1	59.8	79.4	84.5	88.5	91.8	92.7	94.1	94.6	94.6	95.2	95.6	95.6	95.7	95.7	95.8	95.9
GE 700	1	59.8	79.6	84.7	88.8	92.1	93.1	94.5	95.3	95.3	95.7	96.0	96.0	96.2	96.2	96.3	96.4
GE 600	1	59.8	79.7	85.0	89.1	92.5	93.5	95.0	95.6	95.6	96.0	96.5	96.5	96.7	96.7	96.8	96.9
GE 500	1	59.8	79.8	85.1	89.3	92.9	93.9	95.5	96.5	96.5	96.9	97.3	97.3	97.4	97.4	97.5	97.6
GE 400	1	59.9	79.9	85.2	89.6	93.3	94.3	96.1	97.2	97.2	97.6	98.1	98.1	98.3	98.3	98.4	98.5
GE 300	1	59.9	79.9	85.3	89.7	93.5	94.6	96.5	97.7	97.8	98.4	98.6	98.6	98.8	98.8	98.8	99.0
GE 200	1	59.9	79.9	85.3	89.7	93.5	94.6	96.4	97.7	97.8	98.4	98.8	98.8	99.1	99.1	99.2	99.3
GE 100	1	59.9	79.9	85.3	89.7	93.5	94.6	96.5	97.7	97.8	98.5	98.9	98.9	99.2	99.2	99.4	99.6
GE 0	1	59.9	79.9	85.3	89.7	93.5	94.6	96.5	97.7	97.8	98.5	98.9	98.9	99.2	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FULLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: AUG HOURS/LIST: 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE GE
NC CEIL	37.0	51.9	54.1	57.1	59.4	59.7	59.8	60.4	60.4	61.4	61.6	61.6	61.7	61.7	61.9	62.
GE 20000	38.4	54.0	56.2	59.5	61.8	62.2	67.4	63.0	63.0	64.0	64.2	64.2	64.3	64.5	64.5	64.
GE 18000	38.4	54.0	56.2	59.5	62.0	62.4	62.6	63.2	63.2	64.2	64.4	64.4	64.5	64.5	64.7	65.
GE 16000	38.4	54.0	56.2	59.5	62.0	62.4	62.6	63.2	63.2	64.2	64.4	64.4	64.5	64.5	64.7	65.
GE 14000	38.4	54.0	56.2	59.5	62.0	62.4	62.6	63.2	63.2	64.2	64.4	64.4	64.5	64.5	64.7	65.
GE 12000	38.5	54.5	56.8	60.0	62.6	62.9	63.1	63.8	63.8	64.7	64.9	64.9	65.1	65.1	65.3	65.
GE 10000	39.5	56.0	58.7	61.9	64.6	64.9	65.3	65.9	65.9	66.9	67.1	67.1	67.2	67.2	67.4	67.
GE 9000	39.9	56.6	59.2	62.5	65.5	65.5	65.8	66.5	66.5	67.4	67.6	67.6	67.7	67.7	68.0	68.
GE 8000	40.8	58.3	61.0	64.2	66.9	67.2	67.7	68.4	68.4	69.4	69.6	69.6	69.7	69.7	69.9	70.
GE 7000	40.9	58.4	61.3	64.5	67.2	67.5	68.4	69.0	69.0	70.0	70.2	70.2	70.3	70.3	70.5	70.
GE 6000	41.2	59.0	61.9	65.2	67.8	68.2	69.0	69.7	69.7	70.6	70.9	70.9	71.0	71.0	71.2	71.
GE 5000	41.5	60.2	63.2	66.0	69.4	69.7	70.5	71.2	71.2	72.2	72.4	72.4	72.5	72.5	72.7	73.
GE 4500	42.6	61.8	64.9	68.4	71.4	71.7	72.6	73.2	73.2	74.2	74.4	74.4	74.5	74.5	74.7	75.
GE 4000	43.0	62.5	65.7	69.1	72.3	72.6	73.5	74.2	74.2	75.2	75.4	75.4	75.5	75.5	75.7	76.
GE 3500	44.3	64.4	67.6	71.4	74.5	74.8	75.9	76.7	76.7	77.8	78.1	78.1	78.2	78.2	78.4	78.
GE 3000	45.3	65.7	69.0	72.6	76.3	76.7	78.0	78.7	78.7	80.0	80.2	80.2	80.3	80.3	80.5	80.
GE 2500	46.6	68.5	72.0	75.9	79.8	81.1	81.4	82.2	82.2	83.4	83.7	83.7	83.8	83.8	84.0	84.
GE 2000	48.0	71.1	74.7	76.8	82.9	83.2	85.2	85.9	85.9	87.4	87.7	87.7	87.8	87.8	88.1	88.
GE 1800	49.6	71.7	75.4	79.5	83.7	84.0	85.9	86.7	86.7	88.2	88.5	88.5	88.6	88.6	88.8	89.
GE 1500	49.1	72.6	76.2	80.4	84.7	85.1	87.1	88.0	88.0	89.5	89.8	89.8	89.9	89.9	90.2	90.
GE 1200	49.4	73.1	76.9	81.1	85.0	85.7	87.7	88.6	88.6	90.2	90.5	90.5	90.6	90.6	91.0	91.
GE 1000	49.5	73.3	77.1	81.6	86.0	86.5	88.6	89.5	89.5	91.3	91.6	91.6	91.7	91.7	92.0	92.
GE 900	49.5	73.4	77.3	81.8	86.2	86.6	88.9	89.9	89.9	91.6	91.9	91.9	92.0	92.0	92.4	92.
GL 800	49.6	73.9	78.0	82.6	87.2	87.5	90.1	91.0	91.0	92.8	93.1	93.1	93.2	93.2	93.5	93.
GE 700	49.8	74.1	78.3	82.9	87.8	88.2	90.8	91.7	91.7	93.5	93.9	93.9	94.1	94.1	94.4	94.
GE 600	49.8	74.3	78.5	83.3	88.6	88.9	91.5	92.5	92.5	94.3	94.6	94.6	94.8	94.8	95.2	95.
GE 500	49.8	74.3	78.9	83.9	89.4	89.7	92.4	93.3	93.3	95.2	95.5	95.5	95.7	95.7	96.0	96.
GE 400	49.8	74.3	78.9	83.9	89.6	89.6	92.7	93.8	93.8	95.6	95.9	95.9	96.1	96.1	96.5	96.
GE 300	49.8	74.3	78.9	83.9	89.6	89.9	92.9	94.1	94.1	95.9	96.2	96.2	96.5	96.5	96.8	97.
GE 200	49.8	74.3	78.9	83.9	89.6	89.9	93.0	94.3	94.3	96.8	97.2	97.2	97.7	97.7	98.2	98.
GE 100	49.8	74.3	78.9	83.9	89.6	89.9	93.0	94.3	94.3	96.8	97.2	97.2	97.8	97.8	98.5	99.
GE 0	49.8	74.3	78.9	83.9	89.6	89.9	97.0	94.3	94.3	96.8	97.2	97.3	97.8	97.8	98.8	100.

TOTAL NUMBER OF OBSERVATIONS: 936

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATH WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																		GE
	1	10	6	5	4	3	2	1/2	2	1	1/2	1	1/4	1	3/4	5/8	1/2	5/16	1/4
NC CCTL	32.2	43.5	45.5	48.9	52.4	52.8	53.5	54.1	54.5	55.1	55.3	55.3	55.8	55.8	56.2	56.			
GE 20000	33.1	46.1	48.4	52.3	56.0	56.5	57.2	57.8	58.3	58.8	59.0	59.0	59.6	59.6	60.0	60.0	60.		
GE 18000	33.1	46.1	48.4	52.0	56.0	56.5	57.2	57.8	58.3	58.8	59.0	59.0	59.6	59.6	60.0	60.0	60.		
GE 16000	33.1	46.1	48.4	52.0	56.0	56.5	57.2	57.8	58.3	58.8	59.0	59.0	59.6	59.6	60.0	60.0	60.		
GE 14000	33.2	46.2	48.5	52.3	56.2	56.7	57.4	58.1	58.5	59.0	59.2	59.2	59.8	59.8	60.2	60.			
GE 12000	33.3	46.5	48.7	52.5	56.5	57.6	58.3	58.7	59.2	59.5	59.5	59.5	60.0	60.0	60.4	60.			
GE 10000	34.0	47.7	50.3	54.3	58.3	58.7	59.5	60.1	60.5	61.1	61.3	61.3	61.8	61.8	62.3	62.			
GE 9000	34.3	48.1	50.6	54.6	58.6	59.0	59.8	60.4	60.9	61.4	61.6	61.6	62.2	62.2	62.				
GE 8000	35.8	49.5	52.2	56.1	60.1	60.5	61.4	62.0	62.5	63.0	63.2	63.2	63.8	63.8	64.2	64.			
GE 7000	35.6	49.9	52.6	56.6	60.5	61.0	61.9	62.6	63.0	63.5	63.8	63.8	64.3	64.3	64.7	64.			
GE 6000	35.6	50.0	52.8	56.8	60.8	61.2	62.2	62.8	63.2	63.8	64.0	64.0	64.5	64.5	64.9	64.			
GE 5000	36.2	51.1	54.2	58.3	62.3	62.8	64.1	64.7	65.2	65.7	65.9	65.9	66.5	66.5	66.9	66.			
GE 4500	37.5	53.7	56.9	61.3	65.3	65.8	67.2	67.8	68.3	68.8	69.0	69.0	69.6	69.6	70.0	70.			
GE 4000	38.0	54.5	57.7	62.4	66.5	67.0	68.5	69.4	69.8	70.3	70.8	70.8	71.3	71.3	71.7	71.			
GE 3500	39.1	56.2	59.6	64.3	68.4	68.9	70.5	71.5	71.9	72.5	73.0	73.0	73.5	73.5	74.0	74.			
GE 3000	40.5	57.8	61.3	66.0	70.1	70.6	72.3	73.3	73.8	74.3	74.8	74.8	75.4	75.4	75.6	75.			
GE 2500	42.4	61.1	64.5	69.6	74.0	74.5	76.3	77.5	78.0	78.6	79.1	79.1	79.7	79.7	80.1	80.			
GE 2000	43.0	62.6	66.0	71.2	75.9	76.6	78.7	80.0	80.4	81.4	82.2	82.2	82.7	82.7	83.1	83.			
GE 1800	43.3	63.3	66.8	71.9	76.8	77.6	79.8	81.1	81.5	82.5	83.2	83.2	83.8	83.8	84.2	84.			
GE 1500	44.0	64.7	68.2	73.4	78.4	79.4	81.6	82.9	83.4	84.4	85.2	85.2	85.7	85.7	86.1	86.			
GE 1200	44.3	65.3	68.7	74.0	78.9	79.9	82.2	83.5	84.2	85.2	85.9	85.9	86.5	86.5	87.0	87.			
GE 1000	44.5	66.0	69.6	74.8	79.8	80.9	83.2	84.6	85.3	86.2	87.0	87.0	87.5	87.5	88.1	88.			
GE 900	44.5	66.1	70.3	75.6	80.5	81.6	84.0	85.5	86.1	87.1	87.8	87.8	88.4	88.4	88.9	88.			
GE 800	44.7	66.8	71.2	76.7	81.9	83.1	85.9	87.4	88.1	89.0	89.8	89.8	90.3	90.3	90.9	90.			
GE 700	44.8	67.2	71.7	77.4	82.7	83.9	86.7	88.3	88.9	89.9	90.6	90.6	91.2	91.2	91.7	91.			
GE 600	44.8	67.3	71.8	77.7	83.1	84.4	87.4	89.0	89.7	90.8	91.5	91.5	92.0	92.0	92.6	92.			
GE 500	44.8	67.3	72.2	78.2	83.7	84.9	88.6	90.2	90.9	91.9	92.7	92.7	93.2	93.2	93.8	93.			
GE 400	44.8	67.4	72.4	78.5	84.2	85.5	89.6	91.2	91.8	93.3	94.1	94.2	94.7	94.7	95.3	95.			
GE 300	44.8	67.4	72.4	78.5	84.2	85.5	89.7	91.4	92.2	93.7	94.4	94.5	95.1	95.1	95.6	95.			
GE 200	44.8	67.4	72.4	78.5	84.2	85.6	89.8	91.6	92.4	94.1	94.9	95.1	95.8	95.8	96.3	96.			
GE 100	44.8	67.4	72.4	78.5	84.3	85.7	90.0	91.8	92.6	94.5	95.6	95.7	96.6	96.9	97.6	98.			
GE 01	44.8	67.4	72.4	78.5	84.3	85.7	90.0	91.8	92.6	94.5	95.6	95.7	96.6	96.9	97.7	100.			

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	10 6	5 4	3 2	1/2 1/2	2 1 1/2	1 1/4 1	3/4 5/8	1/2 5/16	1/4 1/4	0 D						
NC CEIL	24.5	37.1	38.5	41.0	43.4	44.8	45.7	47.1	47.2	48.3	48.8	48.8	48.9	49.2	49.8	50.5
GE 20000	25.8	39.4	41.2	44.1	47.1	48.6	49.7	51.1	51.3	52.4	52.9	52.9	53.0	53.4	54.0	55.2
GE 18000	25.9	39.5	41.3	44.2	47.2	48.7	49.8	51.2	51.4	52.5	53.0	53.0	53.1	53.5	54.1	55.3
GE 16000	25.9	39.5	41.3	44.2	47.2	48.7	49.8	51.2	51.4	52.5	53.0	53.0	53.1	53.5	54.1	55.3
GE 14000	25.9	39.6	41.4	44.4	47.4	48.9	50.0	51.4	51.6	52.7	53.2	53.3	53.8	54.3	55.5	
GE 12000	26.1	40.0	41.8	44.8	47.8	49.4	50.4	51.8	52.0	53.1	53.7	53.7	53.8	54.2	54.7	55.9
GE 10000	27.4	42.0	43.9	47.2	50.6	52.4	53.4	54.9	55.2	56.3	56.9	56.9	57.0	57.4	58.0	59.2
GE 9000	27.4	42.3	44.1	47.4	50.9	52.6	53.7	55.2	55.4	56.6	57.1	57.1	57.2	57.6	58.2	59.5
GE 8000	29.1	44.6	46.6	49.9	53.4	55.2	56.2	57.7	58.0	59.1	59.7	59.7	59.8	60.2	60.8	62.0
GE 7000	29.7	46.1	49.1	51.4	55.1	56.9	58.0	59.6	59.8	61.0	61.5	61.5	61.6	62.0	62.6	63.9
GE 6000	30.0	47.0	48.9	52.3	55.9	57.7	58.8	60.4	61.8	62.4	62.5	62.9	63.4	64.7		
GE 5000	30.8	48.2	50.2	53.5	58.1	59.9	61.0	62.6	62.9	64.1	64.6	64.6	64.7	65.2	65.7	67.0
GE 4500	32.2	50.9	53.1	56.7	61.3	63.3	64.6	66.2	66.6	67.7	68.3	68.3	68.4	68.8	69.4	70.0
GE 4000	32.4	51.2	53.4	57.0	61.7	63.9	65.3	67.0	67.3	68.5	69.0	69.1	69.2	69.7	70.2	71.6
GE 3500	32.8	52.0	54.3	57.8	62.8	64.9	66.5	68.3	68.6	70.0	70.5	70.6	70.9	71.3	71.8	73.2
GE 3000	33.3	53.4	55.6	59.9	64.8	67.1	68.7	70.5	70.9	72.3	72.8	72.9	73.1	73.5	74.1	75.5
GE 2500	34.1	54.6	57.4	61.4	66.5	68.9	70.6	72.5	72.8	74.2	75.4	75.5	75.8	76.2	76.8	78.2
GE 2000	35.3	56.6	59.5	63.4	68.6	71.1	72.8	75.1	75.4	76.9	78.2	78.3	78.6	79.0	79.6	81.0
GE 1800	35.6	57.0	59.9	63.9	69.1	71.7	73.5	75.8	76.1	77.7	79.0	79.1	79.5	79.9	80.4	81.8
GE 1500	36.6	58.5	61.4	65.5	70.9	73.4	75.3	77.6	78.0	79.6	80.9	81.0	81.3	81.7	82.3	83.7
GE 1200	37.2	59.6	62.6	66.8	72.2	74.7	76.6	78.9	79.2	81.0	82.4	82.5	82.9	83.3	83.9	85.3
GE 1000	37.3	60.3	63.4	67.7	73.2	75.8	77.7	80.4	80.8	82.6	84.0	84.1	84.5	84.9	85.5	86.9
GE 900	37.5	61.0	64.3	68.6	74.3	76.9	78.8	81.5	81.9	83.8	85.2	85.3	85.7	86.1	86.7	88.1
GE 800	37.7	61.3	64.7	69.0	74.9	77.6	79.6	82.4	82.8	84.6	86.0	86.1	86.6	87.0	87.5	88.9
GE 700	37.8	62.0	65.8	70.2	76.2	79.2	81.4	84.3	84.7	86.7	88.1	88.2	88.6	89.0	89.6	91.0
GE 600	37.9	62.2	66.1	70.6	77.0	80.3	82.6	85.5	85.9	88.1	89.5	89.6	90.0	90.4	91.0	92.4
GE 500	37.8	62.2	66.1	70.6	77.1	80.4	83.1	86.1	86.7	88.8	90.4	90.6	91.1	91.5	92.0	93.4
GE 400	37.8	62.3	66.2	70.8	77.2	80.6	83.4	86.6	87.1	89.2	91.1	91.3	91.7	92.2	92.7	94.1
GE 300	37.8	62.3	66.2	70.8	77.4	81.1	84.0	87.4	88.1	90.6	93.0	93.2	93.7	94.1	94.6	96.0
GE 200	37.8	62.3	66.2	72.6	77.4	81.1	84.1	87.6	88.4	91.1	93.9	94.2	94.8	95.6	97.4	
GE 100	37.8	62.3	66.2	73.8	77.4	81.1	84.1	87.6	88.4	91.1	93.9	94.2	94.8	95.6	97.1	99.2
GE 0	37.8	62.3	66.2	70.8	77.4	81.1	84.1	87.6	88.4	91.1	93.9	94.2	94.8	95.6	97.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG FOURSILST: 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	1	1/2	1	5/8	3/4	1	1 1/2	2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0		
NC CEIL 1	30.4	44.9	46.3	48.1	48.8	49.1	49.2	49.2	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 20000	32.9	48.4	50.4	52.4	53.2	53.5	53.8	53.8	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 18700	33.0	48.5	50.3	52.5	53.3	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 16000	33.0	48.5	50.3	52.5	53.3	53.7	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 14000	33.2	48.7	50.5	52.7	53.7	54.0	54.2	54.2	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 12000	33.2	49.6	51.4	53.5	54.7	55.1	55.3	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 10000	35.2	51.9	53.9	56.0	57.4	58.1	58.5	58.5	58.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 9000	35.5	52.4	54.2	56.0	58.0	58.6	59.0	59.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 8000	38.4	55.9	58.3	60.8	62.3	63.0	67.4	63.4	63.4	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 7000	39.2	57.3	59.5	62.4	63.9	64.6	65.1	65.1	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 6000	39.5	57.6	60.1	62.7	64.2	64.9	65.4	65.4	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 5000	40.3	59.5	61.9	64.5	66.1	66.9	67.3	67.3	67.3	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 4500	41.1	60.5	63.2	66.0	67.7	68.5	69.0	69.0	69.0	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 4000	41.5	61.2	63.9	66.7	68.6	69.6	70.1	70.3	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 3500	42.2	62.0	64.7	67.6	69.6	70.6	71.2	71.4	71.5	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 3000	42.6	62.6	65.7	68.8	71.0	72.2	72.8	73.2	73.3	73.5	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 2500	45.2	66.1	69.5	72.8	75.1	76.5	77.1	77.2	77.2	76.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 2000	46.2	68.3	71.7	75.3	77.6	79.1	79.8	80.5	80.6	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 1800	46.6	69.0	72.5	76.1	78.5	80.0	80.9	81.6	81.7	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 1500	48.3	71.9	75.5	79.4	81.9	83.4	84.5	85.3	85.4	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 1200	49.2	74.1	77.8	81.8	84.7	86.3	87.6	88.4	88.5	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 1000	49.9	75.9	79.9	84.1	87.1	88.6	90.1	91.0	91.1	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 900	47.9	76.1	80.1	84.3	87.5	89.2	90.5	91.7	91.8	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 800	50.2	76.7	80.6	84.8	88.3	90.2	91.6	92.6	92.9	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 700	50.3	76.9	81.1	81.3	89.0	91.3	92.9	94.2	94.4	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 600	50.3	77.0	81.3	85.5	89.6	92.0	93.7	95.1	95.4	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 500	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.8	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 400	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.0	97.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 300	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.7	98.9	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4
GE 200	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.8	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 100	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.8	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 01	50.3	77.0	81.3	85.6	90.1	92.9	95.3	97.4	97.8	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	RE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 7/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NO CLIL	35.4	47.1	47.6	49.1	49.6	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
GE 20000	39.6	52.7	53.7	55.5	56.0	56.1	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	
GE 18000	39.6	52.7	53.7	55.5	56.0	56.1	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	
GE 16000	39.6	52.7	53.7	55.5	56.0	56.1	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	
GE 14000	39.9	53.1	54.3	56.2	56.8	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	
GE 12000	40.4	54.0	55.2	57.1	57.6	57.8	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	
GE 10000	41.4	55.8	57.4	59.5	60.1	60.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	
GE 9000	41.7	56.3	58.1	60.1	60.8	61.1	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	
GE 8000	43.1	58.3	61.0	62.5	63.7	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	
GE 7000	44.6	60.2	62.2	64.6	65.4	65.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	
GE 6000	44.9	60.9	62.8	65.3	66.0	66.6	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	
GE 5000	45.8	62.7	64.6	67.5	68.3	68.8	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	
GE 4500	46.8	63.9	65.8	68.0	69.6	70.1	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	
GE 4000	47.6	65.2	67.2	70.4	71.2	71.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	
GE 3500	49.6	67.4	69.7	72.0	73.5	74.2	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	
GE 3000	51.8	70.4	72.8	75.9	76.7	77.3	77.8	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	
GE 2500	54.1	73.9	76.5	79.9	80.8	81.5	82.0	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
GE 2000	55.7	77.1	80.1	84.1	85.3	86.0	86.6	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	
GE 1800	56.3	78.5	81.5	85.9	87.2	88.1	88.6	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	
GE 1500	57.2	80.3	83.4	88.2	90.1	91.2	91.8	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	
GE 1200	57.7	81.2	84.4	89.4	91.5	92.6	93.4	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	
GE 1000	58.2	81.7	85.3	90.2	92.4	93.4	94.4	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	
GE 900	58.2	81.7	85.3	90.2	92.4	93.4	94.4	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	
GE 800	58.3	91.8	85.4	90.3	92.6	94.0	95.1	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	
GE 700	58.3	91.9	85.5	90.5	93.2	94.4	95.6	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	
GE 600	58.3	91.9	85.8	91.1	93.9	95.2	96.5	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
GE 500	58.3	92.2	86.0	91.3	94.6	95.9	97.3	98.1	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	
GE 400	58.3	82.3	86.3	91.6	95.1	96.5	97.8	98.8	98.8	99.0	99.2	99.2	99.4	99.4	99.4	99.4	99.4	
GE 300	58.3	32.3	86.3	91.6	95.1	96.5	97.8	99.0	99.0	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	
GE 200	58.3	92.3	86.3	91.6	95.1	96.5	97.9	99.0	99.0	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	
GE 100	58.3	82.3	86.3	91.6	95.1	96.5	97.8	99.0	99.0	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	
GE 0	58.3	82.3	86.3	91.6	95.1	96.5	97.8	99.0	99.0	99.5	99.8	99.8	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	10	6	5	4	GE	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0	
NO CEIL	41.5	49.5	58.9	62.5	52.8	52.6	52.9	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
GE 20000	47.0	56.2	58.3	60.3	60.8	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 18000	47.0	56.2	58.3	60.3	62.8	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 16000	47.0	56.2	58.3	60.3	60.8	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	
GE 14000	47.4	56.7	58.7	60.4	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	
GE 12000	48.4	57.8	60.1	62.2	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
GE 10000	48.7	59.0	61.5	63.5	64.2	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	
GE 9000	48.8	59.1	61.6	63.9	64.5	64.5	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	
GE 8000	50.2	61.5	64.3	66.5	67.4	67.4	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	
GE 7000	50.6	62.7	65.7	68.1	69.2	69.2	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	
GE 6000	50.8	62.9	65.9	68.3	69.5	69.5	69.6	69.6	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	
GE 5000	51.6	64.6	68.1	70.5	71.7	71.7	71.8	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
GE 4500	53.3	67.8	71.0	73.4	74.6	74.7	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	
GE 4000	54.2	69.1	72.2	74.7	75.9	76.0	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	
GE 3500	55.7	71.1	74.4	77.1	78.3	78.7	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	
GE 3000	58.4	74.3	77.6	80.6	81.9	82.6	82.8	82.8	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	
GE 2500	60.0	76.8	80.2	84.0	85.4	86.0	86.2	86.2	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	
GE 2000	60.6	78.2	82.0	86.3	87.7	88.6	88.9	89.1	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	
GE 1800	61.2	78.9	82.9	87.0	89.7	90.0	90.3	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	
GE 1500	62.2	80.3	84.3	88.6	90.3	91.6	92.0	92.4	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	
GE 1200	62.5	81.0	85.1	89.5	91.4	92.7	93.1	93.5	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	
GE 1000	62.8	81.9	86.7	90.6	92.7	94.1	94.5	94.9	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	
GE 900	62.8	81.9	86.7	90.6	92.7	94.2	94.7	95.2	95.4	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	
GE 800	62.9	82.0	86.3	90.9	92.9	94.3	94.9	95.4	95.6	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	
GE 700	62.8	82.2	86.5	91.0	93.3	94.7	95.6	96.0	96.5	96.6	96.9	96.9	97.0	97.0	97.0	97.0	97.0	
GE 600	62.8	82.2	86.5	91.0	93.3	94.8	95.7	96.1	96.6	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	
GE 500	62.8	82.3	86.6	91.1	93.5	95.1	96.0	97.0	97.4	97.7	97.8	97.8	98.0	98.0	98.0	98.0	98.0	
GE 400	62.8	82.4	86.8	91.4	94.3	95.8	96.9	98.1	98.5	98.9	99.1	99.4	99.4	99.4	99.4	99.4	99.4	
GE 300	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	
GE 200	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	
GE 100	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	
GE C	62.8	82.4	86.8	91.4	94.5	96.1	97.2	98.4	98.8	99.4	99.6	99.6	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-66  
MONTH: AUG HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GL 10	GF 6	GE 5	GE 4	GE 3	CF 2 1/2	GE 2	GF 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC LLIL 1 43.0	51.0	52.5	54.1	55.2	55.5	55.9	56.0	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	
GE 200001 47.6	58.9	61.3	63.2	64.5	64.9	65.4	65.5	65.5	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	
GE 150001 47.6	58.9	61.3	63.2	64.5	64.9	65.4	65.5	65.5	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	
GE 160001 47.6	58.9	61.3	63.2	64.5	64.9	65.4	65.5	65.5	65.7	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	
GE 140001 47.7	59.0	61.4	63.3	64.6	65.1	65.5	65.6	65.6	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	
GE 120001 47.8	59.4	61.9	63.9	65.2	65.6	66.0	66.1	66.1	66.3	66.3	66.3	66.5	66.5	66.5	66.5	66.5	66.5	
GE 100001 46.7	60.6	63.5	65.5	66.8	67.2	67.6	67.7	67.7	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	
GE 90001 49.0	61.3	64.3	66.2	67.5	68.0	68.4	68.5	68.5	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	
GE 80001 50.3	63.3	66.6	63.7	70.1	70.6	71.1	71.3	71.3	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	
GE 70001 51.1	64.3	67.5	69.6	71.2	71.7	72.2	72.4	72.4	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	
GE 60001 51.6	65.1	68.3	70.5	71.9	72.5	72.9	73.1	73.1	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	
GE 50001 52.2	66.0	69.2	71.7	73.1	73.7	74.1	74.3	74.3	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.6	74.6	
GE 45001 53.0	67.4	70.9	72.3	74.9	75.5	75.9	76.1	76.2	76.5	76.5	76.5	76.6	76.6	76.6	76.6	76.6	76.6	
GE 40001 53.8	68.7	72.2	74.9	76.8	77.3	77.7	78.0	78.1	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	
GE 35001 55.2	70.9	74.4	77.5	79.7	80.3	81.8	81.1	81.2	81.5	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	
GE 30001 56.8	72.9	76.6	80.3	82.8	83.7	84.1	84.6	84.7	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	
GE 25001 57.4	74.3	78.3	82.4	85.1	86.1	86.8	87.3	87.4	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	
GE 20001 58.6	76.3	80.4	84.8	88.0	89.2	90.0	90.6	90.8	91.3	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	
GE 18001 58.8	76.7	81.0	82.4	83.6	84.9	85.6	86.6	87.3	89.4	91.9	92.2	92.2	92.3	92.3	92.3	92.3	92.3	
GE 15001 59.0	77.4	81.9	84.3	89.6	91.0	91.7	92.4	92.5	93.0	93.2	93.3	93.4	93.4	93.4	93.4	93.4	93.4	
GE 12001 59.1	77.6	82.2	84.5	87.8	91.3	92.0	92.7	92.8	93.3	93.5	93.7	93.8	93.8	93.8	93.8	93.8	93.8	
GE 10001 59.4	78.4	82.1	87.7	91.3	92.9	93.9	94.5	94.6	95.3	95.5	95.6	95.7	95.7	95.7	95.7	95.7	95.7	
GE 9001 59.6	78.7	83.4	88.3	91.8	93.4	94.4	95.1	95.3	95.9	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	
GE 8001 59.7	78.9	83.9	86.7	92.3	93.9	94.3	95.5	95.7	96.3	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	
GE 7001 59.7	78.9	84.0	85.6	92.4	94.0	95.1	95.8	96.0	96.7	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	
GE 6001 59.7	79.0	84.1	88.9	92.5	94.1	95.3	96.0	96.2	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	
GE 5001 59.8	79.1	84.2	89.0	92.7	94.3	95.5	96.5	96.8	97.5	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1	
GE 4001 59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.3	98.5	98.7	99.0	99.0	99.0	99.0	99.0	99.0	
GE 3001 59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	
GE 2001 59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.5	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
GE 1001 59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.5	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	
GE 91 59.8	79.1	84.2	89.0	93.1	94.7	96.0	97.1	97.4	98.5	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: AUG

HOURS(LST): 2100-2300

CEILING	VISIBILITY IN STATUTE MILES															
	IN	GE 1C	GE L	GE S	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/6	GE 1/2	GE 5/16	GE 1/4
NC CEIL	40.8	54.3	56.9	59.2	60.9	61.1	61.9	62.8	62.8	63.3	63.3	63.3	63.4	63.4	63.5	63.6
GE 20000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 18000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 16000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 14000	43.7	58.5	61.4	64.0	65.9	66.1	67.1	68.0	68.2	68.7	68.7	68.7	68.8	68.8	68.9	69.1
GE 12000	44.1	59.6	62.7	65.3	67.2	67.4	68.4	69.2	69.5	70.0	70.0	70.0	70.1	70.1	70.2	70.4
GE 10000	44.5	61.1	64.4	67.0	69.0	69.2	70.2	71.2	71.4	71.9	71.9	71.9	72.0	72.0	72.2	72.4
GE 9000	44.8	61.4	64.7	67.3	69.4	69.6	70.5	71.5	71.7	72.3	72.3	72.3	72.4	72.4	72.5	72.7
GE 8000	45.1	62.5	66.1	68.7	70.9	71.1	72.0	73.0	73.2	73.8	73.8	73.8	73.9	73.9	74.0	74.2
GE 7000	45.6	63.5	67.2	69.8	71.9	72.2	73.2	74.2	74.4	74.9	74.9	74.9	75.1	75.1	75.2	75.4
GE 6000	45.7	63.8	67.4	70.0	72.2	72.4	73.4	74.4	74.6	75.2	75.2	75.2	75.3	75.3	75.4	75.6
GE 5000	46.3	64.8	68.7	71.4	73.5	73.8	74.8	75.6	76.0	76.6	76.6	76.6	76.7	76.7	76.8	77.0
GE 4500	46.9	66.0	69.9	72.0	75.1	75.3	76.5	77.4	77.7	78.5	78.5	78.5	78.6	78.6	78.7	78.9
GE 4000	47.4	67.0	70.5	73.6	76.6	76.8	78.0	78.9	79.2	80.0	80.0	80.0	80.1	80.1	80.2	80.4
GE 3500	48.4	68.8	73.0	75.9	78.9	79.2	80.8	81.7	82.0	82.8	83.0	83.0	83.1	83.1	83.2	83.4
GE 3000	48.9	69.7	74.0	76.9	80.2	80.5	82.2	83.1	83.4	84.2	84.4	84.4	84.5	84.5	84.6	84.8
GE 2500	49.6	71.1	75.6	78.8	82.5	82.8	84.8	86.0	86.3	87.2	87.4	87.4	87.5	87.5	87.6	87.8
GE 2000	50.3	72.4	77.0	80.9	84.9	85.3	87.5	88.9	89.2	90.2	90.5	90.5	90.6	90.6	90.8	91.0
GE 1800	51.0	73.2	78.1	81.9	86.1	86.6	88.8	90.3	90.6	91.6	91.9	91.9	92.0	92.0	92.2	92.4
GE 1500	51.5	74.2	79.1	83.1	87.5	88.0	90.2	91.7	92.0	93.0	93.3	93.3	93.4	93.4	93.5	93.8
GE 1200	51.6	74.4	79.6	83.7	88.1	88.6	91.1	92.6	92.9	93.9	94.2	94.2	94.3	94.3	94.4	94.6
GE 1000	52.0	75.1	80.4	84.5	88.9	89.6	92.2	93.7	94.0	94.9	95.3	95.3	95.4	95.4	95.5	95.7
GE 900	52.0	75.2	80.5	84.6	89.0	89.7	92.3	93.8	94.1	95.1	95.4	95.4	95.5	95.5	95.6	95.8
GE 800	52.0	75.3	80.9	85.1	89.5	90.1	92.7	94.2	94.5	95.5	95.8	95.8	95.9	95.9	96.0	96.2
GE 700	52.0	75.3	81.0	85.2	89.7	90.3	93.0	94.5	94.8	95.8	96.1	96.1	96.2	96.2	96.3	96.6
GE 600	52.0	75.3	81.1	85.3	90.1	90.8	93.5	95.1	95.4	96.3	96.7	96.7	96.8	96.8	96.9	97.1
GE 500	52.2	75.4	81.4	85.6	90.6	91.3	94.2	95.8	96.1	97.1	97.4	97.4	97.5	97.5	97.6	97.8
GE 400	52.2	75.4	81.5	85.7	90.9	91.6	94.5	96.1	96.5	97.6	98.0	98.1	98.2	98.3	98.5	98.5
GE 300	52.2	75.4	81.5	85.8	91.0	91.7	94.7	96.3	96.7	98.0	98.3	98.4	98.5	98.5	98.6	98.8
GE 200	52.2	75.4	81.5	85.8	91.0	91.7	94.8	96.7	97.0	98.4	98.7	98.8	98.9	98.9	99.0	99.2
GE 100	52.2	75.4	81.5	85.8	91.0	91.7	94.8	96.7	97.0	98.4	98.7	98.8	98.9	98.9	99.2	99.5
GE CI	52.2	75.4	81.5	85.8	91.0	91.7	94.8	96.7	97.0	98.4	98.7	98.8	98.9	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFCTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): ALL

CEILING IN FELT	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	35.6	47.4	49.0	51.3	52.8	53.2	53.6	54.1	54.1	54.6	54.7	54.7	54.8	54.8	55.0	55.1		
GE 20000	38.5	51.8	53.6	56.4	58.2	58.6	59.1	59.6	59.7	60.1	60.2	60.2	60.3	60.4	60.6	60.8		
GE 18000	38.5	51.8	53.9	56.4	58.2	58.6	59.2	59.6	59.7	60.1	60.3	60.3	60.4	60.4	60.6	60.8		
GE 16000	38.5	51.8	53.9	56.4	58.2	58.6	59.2	59.6	59.7	60.1	60.3	60.3	60.4	60.4	60.6	60.8		
GE 14000	38.7	52.0	54.1	56.0	58.5	58.9	59.4	59.9	60.0	60.4	60.5	60.5	60.6	60.7	60.9	61.1		
GE 12000	39.1	52.7	54.8	57.4	59.3	59.7	60.2	60.7	60.8	61.2	61.3	61.3	61.5	61.5	61.7	61.9		
GE 10000	39.9	54.3	56.7	59.4	61.4	61.9	62.5	63.0	63.1	63.5	63.7	63.7	63.8	63.8	64.0	64.2		
CE 9000	40.2	54.7	57.1	59.8	61.8	62.4	62.9	63.4	63.5	64.0	64.1	64.1	64.2	64.3	64.4	64.7		
GE 8000	41.5	56.7	59.4	62.2	64.3	64.8	65.5	66.0	66.1	66.5	66.7	66.7	66.8	66.8	67.0	67.2		
GE 7000	42.2	57.8	60.5	63.4	65.6	66.1	66.8	67.3	67.4	67.9	68.0	68.0	68.1	68.2	68.4	68.6		
GE 6000	42.4	58.3	61.0	63.9	66.0	66.6	67.2	67.8	67.9	68.4	68.5	68.6	68.7	68.8	69.1			
GE 5000	43.1	59.7	62.5	65.5	67.8	68.4	69.1	69.6	69.8	70.2	70.3	70.3	70.5	70.5	70.7	70.9		
GE 4500	44.2	61.5	64.5	67.6	70.0	70.6	71.4	71.9	72.1	72.6	72.7	72.7	72.8	72.9	73.0	73.3		
GE 4000	44.7	62.4	65.4	68.6	71.2	71.9	72.7	73.3	73.4	73.9	74.1	74.1	74.2	74.3	74.4	74.7		
GE 3500	45.9	64.1	67.2	70.5	73.2	74.0	74.9	75.5	75.7	76.3	76.5	76.5	76.6	76.7	76.8	77.1		
GE 3000	47.2	65.9	69.1	72.6	75.5	76.3	77.3	76.0	76.2	78.8	79.0	79.2	79.2	79.4	79.6			
GE 2500	48.7	68.3	71.7	75.6	78.6	79.6	80.7	81.5	81.7	82.3	82.6	82.6	82.8	82.8	83.0	83.3		
GE 2000	49.7	70.3	72.9	78.1	81.4	82.4	83.7	84.6	84.8	85.6	86.0	86.0	86.1	86.2	86.3	86.6		
GE 1800	50.2	71.0	74.7	79.1	82.3	83.4	84.8	85.8	85.9	86.7	87.1	87.1	87.3	87.3	87.5	87.7		
GE 1500	51.0	72.5	76.3	80.6	84.2	85.4	86.8	87.8	88.0	88.8	89.2	89.2	89.4	89.4	89.6	89.8		
GE 1200	51.4	73.3	77.2	81.6	85.2	86.5	89.0	89.2	90.1	90.5	90.7	90.7	90.7	90.7	90.9	91.1		
GE 1000	51.7	74.1	78.1	82.7	86.4	87.7	89.3	90.5	90.7	91.5	91.9	92.0	92.1	92.2	92.4	92.6		
GE 900	51.7	74.3	79.4	83.0	86.8	88.1	89.5	90.9	91.2	92.1	92.5	92.5	92.7	92.7	92.9	93.2		
GE 800	51.9	74.6	76.9	83.5	87.5	88.8	90.6	91.8	92.0	92.9	93.3	93.3	93.5	93.6	93.8	94.0		
GE 700	51.9	74.6	79.2	83.9	88.1	89.5	91.4	92.6	92.9	93.8	94.2	94.2	94.4	94.5	94.7	94.9		
GE 600	51.9	74.9	79.4	84.2	88.5	90.1	92.0	93.3	93.6	94.5	94.9	95.0	95.2	95.4	95.7			
GE 500	52.0	75.0	79.6	84.4	89.0	90.5	92.7	94.1	94.5	95.4	95.9	95.9	96.1	96.2	96.4	96.6		
GE 400	52.0	75.0	79.7	84.6	89.3	91.0	93.2	94.8	95.1	96.3	96.8	96.9	97.1	97.2	97.4	97.6		
GE 300	52.0	75.0	79.7	84.6	89.4	91.0	93.5	95.1	95.5	96.8	97.4	97.5	97.8	97.9	98.1	98.3		
GE 200	52.0	75.0	79.7	84.6	89.4	91.1	93.5	95.3	95.6	97.1	97.8	97.9	98.3	98.4	98.6	98.9		
GE 100	52.0	75.0	79.7	84.6	89.4	91.1	93.5	95.3	95.7	97.2	97.9	98.0	98.5	98.6	99.1	99.5		
GE 0	52.0	75.0	79.7	84.6	89.4	91.1	93.5	95.3	95.7	97.2	97.9	98.0	98.5	98.6	99.1	100.0		

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	CE 10	CE 0	CE 5	CE 4	CE 3	CE 2 1/2	CE 2	CE 1 1/2	CE 1 1/4	CE 1	CE 3/4	CE 5/8	CE 1/2	CE 5/16	CE 1/4	CE 0
NC CEIL	33.3	45.2	46.7	49.0	50.3	50.3	50.7	50.7	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.6
GE 20000	34.6	46.9	48.3	50.6	52.4	52.4	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7
GE 16000	34.6	46.9	48.3	50.8	52.4	52.4	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7
GE 16000	34.6	46.9	48.3	50.8	52.4	52.4	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7
GE 14000	34.6	46.9	48.3	50.8	52.4	52.4	52.8	52.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.7
GE 12000	35.3	48.0	49.4	52.0	53.7	53.7	54.0	54.0	54.6	54.8	54.8	54.8	54.8	54.8	54.8	54.9
GE 10000	36.2	49.2	50.8	53.4	55.2	55.2	55.6	55.6	56.1	56.3	56.3	56.3	56.3	56.3	56.3	56.4
GE 9000	36.2	49.6	51.1	53.6	55.6	55.6	55.9	55.9	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.8
GE 8000	37.3	51.2	52.8	55.6	57.3	57.3	57.8	57.8	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.7
GE 7000	38.1	52.7	54.2	57.0	58.8	58.8	59.2	59.2	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.1
GE 6000	39.9	54.0	55.6	58.3	60.1	60.1	60.6	60.6	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.4
GE 5000	39.9	56.2	58.1	61.2	63.7	63.7	64.1	64.2	64.2	64.8	65.0	65.0	65.0	65.0	65.0	65.1
GE 4000	41.3	58.6	60.4	63.9	66.4	66.4	67.0	67.1	67.1	67.7	67.9	67.9	67.9	67.9	67.9	68.0
GE 4000	41.8	59.6	61.4	64.9	67.4	67.4	68.0	68.1	68.1	68.7	68.9	68.9	68.9	68.9	68.9	69.0
GE 3500	43.1	61.6	63.7	67.1	69.8	69.8	70.3	70.4	70.4	71.0	71.2	71.2	71.2	71.2	71.2	71.3
GE 3000	44.1	63.6	65.4	68.9	71.6	71.6	72.1	72.2	72.2	72.8	73.0	73.0	73.0	73.0	73.0	73.1
GE 2500	46.2	66.6	70.0	73.6	76.3	76.4	77.0	77.1	77.1	77.7	77.9	77.9	77.9	77.9	77.9	78.0
GE 2100	47.1	66.3	71.9	75.6	78.3	78.4	79.0	79.2	79.2	79.8	80.1	80.1	80.1	80.1	80.1	80.1
GE 1800	48.0	69.3	73.1	76.9	79.7	79.8	80.2	80.6	80.6	81.1	81.4	81.4	81.4	81.4	81.4	81.5
GE 1500	48.9	71.9	76.0	79.8	82.6	82.7	83.2	83.6	83.6	84.1	84.4	84.4	84.4	84.4	84.4	84.5
GE 1200	49.4	73.2	77.4	81.3	84.2	84.3	84.9	85.3	85.4	86.0	86.3	86.3	86.3	86.3	86.3	86.4
GE 1000	49.9	74.2	78.6	82.8	86.0	86.2	86.8	87.3	87.4	88.0	88.3	88.3	88.3	88.3	88.3	88.7
GE 900	49.9	74.4	78.6	83.0	86.2	86.4	87.0	87.6	87.7	88.2	88.6	88.6	88.6	88.6	88.6	88.9
GE 800	49.9	74.9	79.9	84.1	87.4	87.4	88.2	88.9	89.0	89.6	89.9	89.9	89.9	89.9	89.9	90.2
GE 700	49.9	75.1	80.1	84.4	88.2	88.7	89.2	89.9	90.0	90.7	91.0	91.0	91.0	91.0	91.0	91.3
GE 600	49.9	75.6	80.7	85.4	89.0	89.6	90.2	93.9	94.0	94.7	95.0	95.0	95.0	95.0	95.0	95.3
GE 500	49.9	75.7	80.8	85.6	89.3	89.9	90.6	91.2	91.7	92.3	92.7	92.7	92.7	92.7	92.7	93.0
GE 400	49.9	76.6	81.9	87.0	93.9	91.7	92.6	93.6	94.0	94.8	95.2	95.2	95.2	95.2	95.2	95.6
GE 300	49.9	76.7	82.0	87.3	91.4	92.2	93.2	94.3	95.0	95.8	96.3	96.3	96.3	96.3	96.3	96.9
GE 200	49.9	76.7	82.0	87.3	91.4	92.3	93.4	94.8	95.4	96.3	97.1	97.1	97.3	97.3	97.4	97.7
GE 100	49.9	76.7	82.0	87.3	91.4	92.3	93.4	94.9	95.6	96.4	97.3	97.3	97.6	97.6	98.3	99.1
GE 0	49.9	76.7	82.0	87.3	91.4	92.3	93.4	94.9	95.6	96.6	97.4	97.4	98.1	98.2	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL 1	29.1	42.0	44.0	45.0	47.0	47.2	47.9	48.3	48.3	48.7	48.7	48.7	49.1	49.2	49.4	49.4	
GE 20000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 18000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 16000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 14000	30.0	43.9	45.9	47.7	48.9	49.1	49.8	50.2	50.2	50.6	50.6	50.6	51.0	51.1	51.3	51.3	
GE 12000	30.2	44.7	45.7	48.4	49.7	49.9	50.6	51.0	51.3	51.3	51.3	51.3	51.8	51.9	52.1	52.1	
GE 10000	30.7	45.2	47.4	49.2	50.8	51.0	51.7	52.1	52.1	52.4	52.4	52.4	52.9	53.0	53.2	53.2	
GE 9000	30.8	45.8	47.0	49.0	51.3	51.6	52.2	52.7	52.7	53.0	53.0	53.0	53.4	53.6	53.8	53.8	
GE 8000	32.9	48.4	50.7	52.4	54.2	54.4	55.1	55.6	55.6	55.9	55.9	55.9	56.3	56.4	56.7	56.7	
GE 7000	33.3	49.2	51.4	53.2	55.1	55.6	56.2	56.7	56.7	57.0	57.0	57.0	57.4	57.6	57.8	57.8	
GE 6000	34.6	50.6	52.9	54.6	56.4	56.9	57.6	58.0	58.0	58.3	58.3	58.3	58.8	58.9	59.1	59.1	
GE 5000	35.6	51.7	54.2	56.0	57.9	58.3	59.1	59.8	59.8	60.1	60.1	60.1	60.6	60.7	60.9	60.9	
GE 4500	36.0	52.7	55.2	57.1	59.0	59.6	60.3	61.0	61.0	61.3	61.3	61.3	61.8	61.9	62.1	62.1	
GE 4000	36.7	53.7	56.3	58.2	60.1	61.7	61.4	62.1	62.1	62.4	62.4	62.4	62.9	63.0	63.2	63.2	
GE 3500	37.9	55.6	58.3	60.2	62.1	62.7	63.4	64.1	64.1	64.4	64.4	64.4	64.9	65.0	65.2	65.2	
GE 3000	39.1	58.0	61.0	62.9	64.6	65.3	66.3	67.0	67.0	67.3	67.3	67.3	67.8	67.9	68.1	68.1	
GE 2500	40.0	61.4	64.9	66.9	68.9	69.4	70.4	71.1	71.1	71.4	71.4	71.4	71.9	72.0	72.3	72.3	
GE 2000	42.4	63.9	67.3	69.4	71.8	72.3	73.3	74.0	74.0	74.3	74.3	74.3	74.9	75.0	75.3	75.3	
GE 1800	43.3	65.2	69.1	71.2	73.8	74.3	75.3	76.0	76.0	76.3	76.3	76.3	76.9	77.0	77.3	77.3	
GE 1500	43.8	66.7	71.0	73.3	76.1	76.7	77.7	78.3	78.3	78.7	78.7	78.7	79.2	79.3	79.7	79.7	
GE 1200	44.9	68.8	73.4	76.0	78.0	79.3	80.6	81.2	81.2	81.7	81.7	81.7	82.4	82.6	82.9	82.9	
GE 1000	45.7	71.1	76.0	79.1	82.3	82.9	84.1	84.8	84.8	85.2	85.6	85.6	86.1	86.2	86.6	86.6	
GE 900	46.1	72.1	77.1	80.4	83.7	84.2	85.4	86.1	86.1	86.6	86.9	86.9	87.4	87.6	87.9	87.9	
GE 800	46.3	72.7	77.8	81.2	84.7	85.2	86.4	87.1	87.1	87.6	87.9	87.9	88.4	88.6	88.9	88.9	
GE 700	46.4	73.2	78.4	82.0	85.4	86.0	87.4	88.1	88.1	88.6	88.9	88.9	89.4	89.6	90.0	90.0	
GE 600	46.4	73.4	76.7	82.3	85.8	86.3	87.8	88.7	88.7	89.1	89.4	89.4	90.0	90.1	90.7	90.7	
GE 500	46.4	73.7	79.4	P3.1	86.6	87.1	88.8	89.8	89.8	90.2	90.6	90.6	91.1	91.2	91.8	91.8	
GE 400	46.4	73.8	79.7	P3.7	87.6	88.2	91.3	92.4	92.6	93.0	93.6	93.6	94.3	94.4	95.1	95.1	
GE 300	46.4	73.8	79.7	P4.1	88.3	89.0	92.3	93.4	94.0	94.4	95.0	95.0	95.8	96.0	96.7	96.7	
GE 200	46.4	73.8	79.7	P4.1	88.3	89.0	92.3	93.6	94.1	94.6	95.1	95.1	95.8	96.7	97.4	97.4	
GE 100	46.4	73.8	79.7	P4.1	88.3	89.0	92.3	93.7	94.2	94.7	95.3	95.3	96.9	97.2	98.8	99.3	
UL	01	46.4	73.8	79.7	84.1	88.3	89.0	92.3	93.7	94.2	94.7	95.3	95.3	97.0	97.3	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: SEP HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 3	
NC CEIL	24.0	32.0	33.6	35.0	36.3	36.9	38.1	38.7	38.9	39.0	39.2	39.2	39.4	39.4	39.7	39.9
GE <0000	26.0	25.3	37.7	29.4	40.0	41.6	43.0	43.6	43.8	43.9	44.1	44.3	44.3	44.7	45.0	45.0
GE 18000	26.8	25.3	37.7	29.4	40.0	41.6	43.0	43.6	43.8	43.9	44.1	44.3	44.3	44.7	45.0	45.0
GE 16000	26.8	25.3	37.7	29.4	40.0	41.6	43.0	43.6	43.8	43.9	44.1	44.3	44.3	44.7	45.0	45.0
GE 14000	26.8	25.3	37.7	29.4	40.0	41.6	43.0	43.6	43.8	43.9	44.1	44.3	44.3	44.7	45.0	45.0
GE 12000	27.2	36.0	32.3	40.1	41.4	42.2	43.7	44.2	44.4	44.6	44.8	44.8	45.0	45.3	45.7	45.7
GE 10000	27.8	36.6	39.1	40.9	42.3	43.1	44.7	45.3	45.6	45.8	46.0	46.0	46.2	46.2	46.6	47.0
GE 9000	29.1	37.4	39.8	41.6	43.1	44.0	45.6	46.3	46.6	46.8	47.0	47.0	47.2	47.2	47.6	48.0
GE 8000	29.8	39.4	41.9	43.8	45.7	46.6	48.1	49.1	49.3	49.6	49.8	49.8	50.0	50.0	50.3	50.8
GE 7000	30.7	40.6	43.1	45.0	47.0	47.9	49.4	50.4	50.7	50.9	51.1	51.1	51.3	51.3	51.7	52.1
GE 6000	31.1	41.2	43.8	45.7	47.7	48.6	50.1	51.2	51.4	51.7	51.9	51.9	52.1	52.1	52.4	52.9
GE 5000	32.0	42.6	45.4	47.7	49.8	50.7	52.2	53.3	53.6	54.0	54.0	54.2	54.2	54.6	55.0	55.0
GE 4500	32.9	43.9	46.9	49.1	51.6	52.6	54.1	55.4	55.7	56.0	56.2	56.2	56.4	56.8	57.2	57.2
GE 4000	33.6	44.8	47.8	50.0	52.4	53.6	55.1	56.6	56.8	57.1	57.3	57.3	57.6	57.9	58.3	58.3
GE 3500	34.7	46.7	49.6	52.3	54.8	56.0	57.6	59.0	59.2	59.6	59.8	59.8	60.0	60.0	60.3	60.8
GE 3000	37.0	50.7	54.0	56.9	59.6	60.6	62.3	64.0	64.2	64.6	64.8	65.0	65.0	65.3	65.8	65.8
GE 2500	38.7	53.2	57.2	60.4	63.1	64.6	66.2	67.9	68.1	68.4	68.7	68.7	68.9	69.2	69.7	69.7
GE 2000	40.4	55.9	62.4	63.7	66.3	68.0	69.9	71.6	71.8	72.1	72.3	72.3	72.6	72.6	72.9	73.3
GE 1800	40.9	56.7	61.3	64.6	67.3	69.0	70.9	72.6	72.8	73.1	73.3	73.3	73.6	73.6	73.9	74.3
GE 1500	42.2	58.9	64.1	67.6	70.6	72.2	74.3	76.1	76.3	76.8	77.0	77.0	77.2	77.2	77.6	78.0
GE 1200	42.6	60.2	65.7	69.1	72.2	74.0	76.1	77.9	78.1	78.6	78.8	78.8	79.0	79.0	79.3	79.8
GE 1000	43.7	62.7	68.2	71.6	75.1	77.3	79.7	81.4	81.8	82.4	82.7	82.7	82.9	83.0	83.3	83.8
GE 900	43.7	62.9	68.4	72.2	75.7	77.9	80.2	82.0	82.3	83.0	82.2	83.2	83.4	83.6	83.9	84.3
GE 800	43.9	63.8	69.3	73.3	76.9	79.3	81.7	83.6	83.9	84.6	84.8	84.8	85.0	85.1	85.4	85.9
GE 700	44.1	64.6	70.4	74.4	78.1	80.8	83.3	85.3	85.7	86.3	86.7	86.7	86.9	87.0	87.3	87.8
GE 600	44.1	64.9	70.9	75.2	78.9	81.6	84.3	86.7	87.1	88.0	88.3	88.7	88.8	89.1	89.6	89.6
GE 500	44.1	65.1	71.1	75.6	79.6	82.6	86.0	88.6	89.0	90.1	90.4	90.4	90.8	90.9	91.2	91.7
GE 400	44.1	65.1	71.3	75.8	80.0	83.4	87.1	90.2	90.8	92.1	92.7	92.7	93.0	93.2	93.6	94.0
GE 300	44.1	65.1	71.4	75.9	80.3	83.8	87.6	90.9	91.7	93.1	93.8	93.8	94.2	94.4	94.8	95.2
GE 200	44.1	65.1	71.4	75.9	80.4	83.9	87.7	91.1	92.0	93.7	94.7	94.8	95.4	95.8	96.2	97.1
GE 100	44.1	65.1	71.4	75.9	80.4	83.9	87.7	91.1	92.0	93.7	94.7	94.8	95.8	96.3	97.4	99.4
GE C	44.1	65.1	71.4	75.9	80.4	83.9	87.7	91.1	92.0	93.7	94.7	94.8	95.8	96.3	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0900-1100

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	32.8	37.9	39.2	40.8	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 20000	37.6	44.4	46.1	47.8	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 18000	37.7	44.6	46.2	47.9	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 16000	37.7	44.6	46.2	47.9	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 14000	37.9	44.9	46.6	48.2	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 12000	38.3	45.3	47.0	48.9	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 10000	39.8	47.1	49.0	50.9	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 9000	40.1	47.6	49.4	51.3	51.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
GE 8000	41.3	49.3	51.2	53.1	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 7000	42.0	50.1	52.0	53.9	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 6000	42.6	53.8	52.7	54.6	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 5000	43.3	51.8	53.7	55.6	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 4500	44.7	53.8	56.0	57.9	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 4000	45.2	54.9	57.1	59.1	59.7	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 3500	47.6	57.3	59.6	61.6	62.1	62.4	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 3000	49.9	60.3	62.6	64.8	65.3	65.8	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 2500	53.2	65.4	67.8	70.0	70.7	71.1	71.6	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 2000	55.7	69.0	71.4	73.7	74.4	74.9	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 1800	56.6	70.9	73.3	75.7	76.6	77.0	77.6	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 1500	59.1	75.4	78.2	80.9	82.0	82.6	83.1	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 1200	60.1	77.7	80.6	83.4	84.9	85.4	86.0	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1000	61.0	80.2	83.3	86.3	88.1	88.7	89.2	89.4	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 900	61.1	80.4	83.9	87.0	88.9	89.4	90.0	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 800	61.3	81.1	84.7	87.8	89.7	90.3	91.0	91.6	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 700	61.6	81.6	85.2	88.6	90.9	92.0	92.7	93.3	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 600	61.6	81.6	85.2	88.6	91.1	92.2	93.0	93.8	94.0	94.3	94.4	94.4	94.4	94.4	94.4	94.4
GE 500	61.6	81.9	85.6	88.9	91.6	92.7	94.0	95.2	95.4	96.0	96.1	96.1	96.1	96.1	96.1	96.1
GE 400	61.6	81.9	85.6	89.3	92.0	93.1	94.9	96.6	97.0	97.8	98.0	98.0	98.0	98.0	98.0	98.0
GE 300	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.4	98.3	98.9	99.0	99.0	99.0	99.0	99.0
GE 200	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.6	98.4	99.2	99.3	99.4	99.4	99.4	99.4
GE 100	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.6	98.4	99.2	99.3	99.4	99.4	99.4	99.4
GE 0	61.6	81.9	85.6	89.3	92.0	93.2	95.2	97.0	97.6	98.4	99.2	99.3	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: SEP HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1C	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE GE
NO CEIL	33.4	39.0	40.4	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 20000	37.6	44.3	46.1	47.6	48.2	48.2	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 18000	37.6	44.6	46.3	47.8	48.4	48.4	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 16000	37.6	44.6	46.3	47.8	48.4	48.4	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 14000	37.8	44.8	46.6	48.0	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 12000	39.3	45.3	47.1	48.6	49.2	49.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
GE 10000	39.7	47.2	49.1	50.6	51.2	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 9000	39.7	47.2	49.1	50.7	51.3	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 8000	41.0	48.8	50.7	52.2	52.9	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 7000	41.6	49.6	51.4	53.0	53.7	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
GE 6000	42.1	50.2	52.2	53.8	54.4	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 5000	43.8	52.2	54.3	56.0	56.7	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 4500	46.0	54.9	57.2	59.4	60.1	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 4000	47.2	56.3	58.7	60.9	61.6	62.1	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 3500	50.3	59.4	61.8	64.0	64.7	65.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 3000	54.6	64.7	67.0	69.3	70.0	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 2500	57.8	69.7	72.1	75.1	76.0	76.6	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 2000	60.0	73.2	75.8	78.9	79.8	80.4	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 1800	60.2	73.9	76.4	79.7	80.6	81.2	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 1500	61.9	76.4	79.1	82.8	83.7	84.6	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1200	62.9	78.0	80.7	84.6	85.7	86.9	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1000	63.7	79.6	82.3	86.4	87.9	89.1	89.9	90.2	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4
GE 900	63.7	79.6	82.3	86.6	88.0	89.2	90.0	90.3	90.3	90.6	90.6	90.6	90.7	90.7	90.7	90.7
GE 800	63.8	79.8	82.6	87.0	88.6	89.9	90.8	91.1	91.2	91.4	91.4	91.4	91.6	91.6	91.6	91.6
GE 700	63.8	79.9	82.9	87.6	89.2	90.7	91.6	91.9	92.0	92.2	92.2	92.2	92.3	92.3	92.3	92.3
GE 600	63.8	80.0	83.1	87.9	90.1	91.6	92.7	93.2	93.3	93.7	93.7	93.7	93.8	93.8	93.8	93.8
GE 500	63.8	80.4	83.6	88.4	90.9	92.6	94.6	95.2	95.3	95.8	95.8	95.8	95.9	95.9	95.9	95.9
GE 400	63.8	80.4	83.6	86.8	91.2	93.6	95.7	97.3	97.6	98.0	98.0	98.1	98.1	98.1	98.1	98.1
GE 300	63.8	80.4	83.6	89.0	91.4	93.8	96.0	97.8	98.1	98.9	99.0	99.0	99.1	99.1	99.1	99.1
GE 200	63.8	80.4	83.6	89.0	91.4	93.8	96.0	98.0	98.3	99.1	99.2	99.2	99.3	99.3	99.3	99.3
GE 100	63.8	80.4	83.6	89.3	91.4	93.8	96.0	98.1	98.4	99.2	99.3	99.3	99.4	99.4	99.4	99.4
GE 01	63.8	80.4	83.6	89.0	91.4	93.8	96.0	98.1	98.4	99.2	99.3	99.3	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	10 GE 6 GE 5 GE 4 GE 3 2 1/2 GE 2 1 1/2 GE 1 1 1/4 GE 1 3/4 GE 5/8 GE 1/2 GE 5/16 GE 1/4 GE 0															
NO CEIL	35.6	40.8	42.3	43.9	45.0	45.2	45.3	45.3	45.3	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 20000	39.1	45.0	47.4	49.2	50.4	50.7	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 18000	39.1	45.0	47.4	49.2	50.4	50.7	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 16000	39.1	45.0	47.4	49.2	50.4	50.7	50.8	50.8	50.8	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 14000	39.1	45.0	47.7	49.4	50.7	50.9	51.0	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 12000	39.7	45.6	48.3	50.3	51.6	51.8	51.9	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 10000	40.4	47.0	49.9	51.9	53.1	53.4	53.6	53.6	53.6	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 9000	40.4	47.4	50.4	52.4	53.7	54.0	54.1	54.1	54.1	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 8000	42.1	50.0	53.2	55.2	56.6	56.9	57.1	57.1	57.1	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 7000	42.9	50.9	54.1	56.1	57.7	58.0	59.2	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 6000	43.2	51.3	54.6	56.6	58.1	58.4	58.8	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 5000	45.0	53.6	56.6	58.8	60.3	60.7	61.0	61.0	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4
GE 4500	47.1	55.6	59.1	61.3	63.2	63.6	64.1	64.1	64.1	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 4000	47.8	57.0	60.3	62.6	64.4	64.8	65.6	65.6	65.6	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 3500	50.1	59.6	63.1	65.3	67.3	67.7	68.4	68.4	68.4	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 3000	53.1	63.7	67.2	69.4	71.4	71.8	72.6	72.6	72.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 2500	55.2	68.0	71.9	74.7	76.8	77.2	78.1	78.3	78.3	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 2000	56.3	70.4	74.3	77.2	79.6	80.4	81.4	81.7	81.7	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 1800	56.7	70.9	74.8	77.8	80.1	81.1	82.2	82.4	82.4	83.1	83.1	83.1	83.1	83.1	83.1	83.2
GE 1500	57.9	73.1	77.0	80.3	83.0	84.0	85.1	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.1
GE 1200	58.6	74.3	78.2	81.7	84.4	85.6	86.8	87.0	87.0	87.7	87.7	87.7	87.7	87.7	87.7	87.8
GE 1000	58.7	74.7	73.6	82.4	85.4	86.7	88.0	88.2	88.2	88.9	89.0	89.0	89.0	89.0	89.0	89.1
GE 900	58.7	74.8	78.8	82.8	85.8	87.0	88.3	88.7	88.7	89.3	89.4	89.4	89.4	89.4	89.4	89.6
GE 800	58.9	75.0	79.2	83.2	86.4	87.7	89.1	89.4	89.4	90.1	90.2	90.2	90.2	90.2	90.3	90.3
GE 700	58.9	75.0	79.3	83.4	86.5	88.2	89.8	90.2	90.2	90.9	91.0	91.0	91.0	91.0	91.1	91.1
GE 600	58.9	75.0	83.6	87.3	89.3	91.3	91.8	91.8	92.4	92.6	92.6	92.6	92.6	92.6	92.7	92.7
GE 500	58.9	75.0	79.9	84.0	88.6	90.7	93.4	93.9	93.9	94.6	94.8	94.8	94.8	94.8	94.9	94.9
GE 400	58.9	75.0	80.0	84.6	89.4	91.7	95.0	95.9	95.9	96.8	97.3	97.3	97.3	97.3	97.4	97.4
GE 300	58.9	75.0	80.0	84.6	89.6	91.8	95.1	96.0	96.2	97.3	98.0	98.1	98.1	98.1	98.2	98.2
GE 200	58.9	75.0	80.0	84.6	89.7	92.0	95.3	96.6	96.8	98.0	99.0	99.1	99.1	99.1	99.2	99.2
GE 100	58.9	75.0	80.0	84.6	89.7	92.0	95.3	96.6	96.8	98.0	99.1	99.2	99.3	99.3	99.6	99.6
GE 01	58.9	75.0	80.0	84.6	89.7	92.0	95.3	96.6	96.8	98.0	99.1	99.2	99.3	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	36.4	46.0	48.3	49.0	50.9	51.0	51.1	51.2	51.2	51.4	51.4	51.4	51.7	51.7	51.7	51.7	51.7	
GE 20000	37.2	47.7	50.3	51.7	53.0	53.1	53.2	53.3	53.3	53.6	53.6	53.6	53.8	53.8	53.8	53.8	53.8	
GE 16000	37.2	47.7	50.3	51.7	53.0	53.1	53.2	53.3	53.3	53.6	53.6	53.6	53.8	53.8	53.8	53.8	53.8	
GE 14000	37.2	47.7	50.3	51.7	53.0	53.1	53.2	53.3	53.3	53.6	53.6	53.6	53.8	53.8	53.8	53.8	53.8	
GE 12000	37.8	48.6	51.2	52.0	53.9	54.0	54.1	54.2	54.2	54.4	54.4	54.4	54.7	54.7	54.7	54.7	54.7	
GE 10000	38.6	49.4	52.3	53.9	55.2	55.3	55.4	55.6	55.6	55.8	55.8	55.8	56.0	56.0	56.0	56.0	56.0	
GE 9000	38.6	49.7	52.6	54.1	55.4	55.6	55.7	55.8	55.8	56.0	56.0	56.0	56.2	56.2	56.2	56.2	56.2	
GE 8000	38.9	50.8	53.8	55.3	56.9	57.0	57.1	57.2	57.2	57.4	57.4	57.4	57.7	57.7	57.7	57.7	57.7	
GE 7000	39.8	51.9	55.0	56.0	58.2	58.3	58.6	59.7	59.7	59.9	59.9	59.9	59.1	59.1	59.1	59.1	59.1	
GE 6000	40.9	53.4	56.6	58.1	59.8	59.9	60.1	60.2	60.2	60.4	60.4	60.4	60.7	60.7	60.7	60.7	60.7	
GE 5000	42.3	55.9	59.0	60.7	62.3	62.4	62.7	62.8	62.8	63.0	63.0	63.0	63.2	63.2	63.2	63.2	63.2	
GE 4500	44.2	58.8	62.4	64.2	66.2	66.4	66.8	66.9	66.9	67.1	67.1	67.1	67.3	67.3	67.3	67.3	67.3	
GE 4000	44.4	59.6	63.2	65.0	67.0	67.2	67.6	67.7	67.7	67.9	67.9	67.9	68.1	68.1	68.1	68.1	68.1	
GE 3500	46.8	62.6	66.3	68.2	70.2	70.4	70.8	70.9	70.9	71.1	71.1	71.1	71.3	71.3	71.3	71.3	71.3	
GE 3000	48.4	64.8	68.8	70.7	72.8	73.0	73.3	73.4	73.4	73.7	73.7	73.7	73.9	73.9	73.9	73.9	73.9	
GE 2500	50.2	69.6	73.8	76.0	78.1	78.3	78.8	78.9	78.9	79.2	79.2	79.2	79.4	79.4	79.4	79.4	79.4	
GE 2000	51.3	71.7	76.0	78.4	80.8	81.0	81.4	81.6	81.6	81.9	81.9	81.9	82.1	82.1	82.1	82.1	82.1	
GE 1800	51.4	72.7	77.2	79.7	82.0	82.2	82.7	82.8	82.8	83.1	83.1	83.1	83.3	83.3	83.3	83.3	83.3	
GE 1500	51.9	73.7	78.3	80.9	83.6	83.8	84.3	84.6	84.6	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	
GE 1200	52.2	74.3	79.1	82.0	84.7	84.9	85.4	85.7	85.7	86.0	86.0	86.0	86.2	86.2	86.2	86.2	86.2	
GE 1000	52.4	75.2	80.4	83.6	86.3	86.6	87.2	87.4	87.4	87.8	87.8	87.8	88.0	88.0	88.0	88.0	88.0	
GE 900	52.6	75.6	80.9	84.0	86.8	87.0	87.7	87.9	87.9	88.2	88.2	88.2	88.4	88.4	88.4	88.4	88.4	
GE 800	52.6	75.6	81.2	84.3	87.1	87.3	88.1	88.4	88.4	88.6	88.6	88.6	89.0	89.0	89.0	89.0	89.0	
GE 700	52.6	75.9	81.3	84.4	87.6	87.8	88.8	89.1	89.1	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	
GE 600	52.6	76.1	81.9	85.0	88.1	88.4	89.9	90.4	90.4	90.9	90.9	90.9	91.1	91.1	91.1	91.1	91.1	
GE 500	52.6	76.3	82.3	85.7	89.1	89.7	91.3	92.0	92.0	92.4	92.4	92.4	92.7	92.7	92.7	92.7	92.7	
GE 400	52.6	77.0	82.3	86.7	91.0	91.9	93.7	94.9	94.9	95.2	95.2	95.2	95.4	95.4	95.4	95.4	95.4	
GE 300	52.6	77.1	83.4	87.0	91.7	92.6	94.6	95.8	95.8	96.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	
GE 200	52.6	77.1	83.4	87.0	91.8	92.8	94.9	96.2	96.2	96.6	96.6	96.6	97.1	97.1	97.1	97.1	97.1	
GE 100	52.6	77.1	83.4	87.1	91.9	93.0	95.2	96.6	96.6	97.1	97.2	97.2	97.9	98.1	98.3	99.2		
GE 0	52.6	77.1	83.4	87.1	91.9	93.0	95.2	96.6	96.6	97.1	97.2	97.3	98.0	98.2	98.8	100.0		

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1 GE 10	2 GE 6	3 GE 5	4 GE 4	5 GE 3	6 GE 2 1/2	7 GE ?	8 GE 1 1/2	9 GE 1 1/4	10 GE 1	11 GE 3/4	12 GE 5/8	13 GE 1/2	14 GE 5/16	15 GE 1/4	16 GE 0
NO CEIL	31.9	39.7	41.4	43.0	44.0	44.2	44.6	44.8	44.8	45.0	45.1	45.1	45.2	45.2	45.3	45.3
GE 20000	34.4	43.2	45.3	47.1	48.2	48.4	48.8	49.0	49.1	49.3	49.3	49.3	49.4	49.5	49.5	49.6
GE 18000	34.4	43.2	45.3	47.1	48.3	48.5	48.9	49.1	49.1	49.3	49.3	49.4	49.4	49.5	49.5	49.6
GE 16000	34.4	43.2	45.3	47.1	48.3	48.5	48.9	49.1	49.1	49.3	49.3	49.4	49.4	49.5	49.5	49.6
GE 14000	34.5	43.3	45.4	47.2	48.4	48.6	49.0	49.2	49.2	49.4	49.5	49.5	49.6	49.6	49.7	49.7
GE 12000	34.9	44.0	46.1	48.0	49.1	49.4	49.8	50.0	50.0	50.2	50.3	50.3	50.4	50.4	50.5	50.6
GE 10000	35.9	45.3	47.6	49.5	50.7	51.0	51.4	51.7	51.7	51.9	52.0	52.0	52.1	52.1	52.2	52.2
GE 9000	36.0	45.7	48.0	49.9	51.1	51.5	51.9	52.1	52.1	52.3	52.4	52.4	52.5	52.5	52.6	52.7
GE 8000	37.4	47.6	50.0	51.9	53.3	53.6	54.1	54.3	54.3	54.6	54.6	54.6	54.8	54.8	54.9	54.9
GE 7000	38.1	48.6	51.0	52.9	54.4	54.7	55.2	55.4	55.5	55.7	55.8	55.8	55.9	55.9	56.0	56.0
GE 6000	38.8	49.5	51.9	53.9	55.3	55.7	56.2	56.4	56.5	56.7	56.8	56.8	56.9	56.9	57.0	57.0
GE 5000	40.0	51.2	53.6	55.9	57.5	57.8	58.3	58.7	58.7	58.9	59.0	59.0	59.1	59.1	59.2	59.3
GE 4500	41.3	53.2	55.9	58.2	59.9	60.4	61.0	61.3	61.3	61.6	61.7	61.7	61.8	61.8	61.9	61.9
GE 4000	41.9	54.1	56.9	59.2	60.9	61.4	62.0	62.4	62.4	62.7	62.7	62.7	62.8	62.8	62.9	63.0
GE 3500	43.8	56.5	59.3	61.7	63.5	64.0	64.7	65.0	65.0	65.3	65.4	65.4	65.5	65.5	65.6	65.6
GE 3000	45.9	59.5	62.6	65.1	66.9	67.4	68.1	68.5	68.5	68.8	68.9	68.9	69.0	69.0	69.1	69.2
GE 2500	48.3	63.6	67.0	69.6	71.8	72.4	73.1	73.6	73.6	73.9	74.0	74.0	74.1	74.1	74.2	74.3
GE 2000	50.1	66.4	69.9	72.8	74.9	75.6	76.4	76.9	76.9	77.2	77.3	77.3	77.4	77.4	77.5	77.6
GE 1800	50.7	67.5	71.2	74.1	76.3	76.9	77.8	78.2	78.3	78.6	78.7	78.7	78.8	78.8	78.9	79.0
GE 1500	52.0	70.0	73.9	77.2	79.5	80.2	81.1	81.6	81.7	82.0	82.1	82.1	82.2	82.2	82.3	82.4
GE 1200	52.8	71.7	75.7	79.1	81.7	82.5	83.4	84.0	84.0	84.3	84.5	84.5	84.6	84.6	84.7	84.8
GE 1000	53.4	73.3	77.5	81.2	84.1	85.0	86.0	86.6	86.7	87.1	87.2	87.2	87.3	87.4	87.5	87.6
GE 900	53.6	73.6	78.0	81.6	84.7	85.6	86.6	87.3	87.3	87.8	87.9	87.9	88.0	88.1	88.2	88.3
GE 800	53.7	74.1	78.7	82.6	85.6	86.6	87.7	88.4	88.5	89.0	89.1	89.1	89.2	89.3	89.4	89.5
GE 700	53.9	74.6	79.3	83.3	86.6	87.8	89.0	89.8	89.8	90.3	90.5	90.5	90.6	90.6	90.7	90.8
GE 600	53.9	74.8	79.6	83.7	87.2	88.5	89.9	90.9	91.0	91.5	91.7	91.7	91.8	91.9	92.0	92.1
GE 500	53.9	75.0	80.0	84.2	88.0	89.4	91.3	92.4	92.5	93.2	93.3	93.3	93.5	93.5	93.6	93.7
GE 400	53.9	75.2	81.3	84.8	88.9	90.6	93.0	94.5	94.8	95.5	95.8	95.8	96.0	96.0	96.2	96.3
GE 300	53.9	75.3	82.4	85.0	89.2	91.0	93.6	95.2	95.6	96.5	96.9	96.9	97.1	97.2	97.3	97.5
GE 200	53.9	75.3	82.4	85.0	89.3	91.1	93.7	95.5	96.0	96.9	97.5	97.6	97.6	97.9	98.0	98.2
GE 100	53.9	75.3	82.4	85.1	89.3	91.1	93.8	95.6	96.1	97.0	97.6	97.7	98.3	98.4	98.9	99.6
GE 01	53.9	75.3	82.4	85.1	89.3	91.1	93.8	95.6	96.1	97.0	97.7	97.7	98.3	98.5	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-66  
MONTH: OCT HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	10	GE 4	GE 5	GE 4	GE 3	GE 2	1 1/2'	2	1 1/2	1 1/4	1	3/4	5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL   26.4	39.1	41.3	42.3	42.7	43.0	43.2	43.2	43.7	43.7	43.7	44.4	44.4	44.7	44.9				
LE 20000   30.8	41.1	42.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9			
GL 18000   30.6	41.1	43.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9			
GE 16000   30.8	41.1	43.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9			
LE 14000   30.8	41.1	43.2	44.2	44.6	44.9	44.9	45.2	45.2	45.6	45.6	45.6	46.3	46.3	46.7	46.9			
LE 12000   31.3	41.9	44.3	45.3	45.7	46.0	46.0	46.2	46.2	46.7	46.7	46.7	47.4	47.4	47.7	48.0			
GL 10000   31.8	42.6	45.1	46.0	46.7	47.0	47.0	47.2	47.2	47.6	47.6	47.6	48.4	48.4	48.7	48.9			
LE 9000   32.2	43.0	45.5	46.5	47.1	47.4	47.4	47.6	47.6	48.1	48.1	48.8	49.1	49.1	49.4				
GE 8000   33.7	45.1	47.6	48.6	49.7	50.0	50.0	50.2	50.2	50.6	50.6	50.6	51.4	51.4	51.7	51.9			
LE 7000   34.4	45.9	48.5	49.5	50.6	51.0	51.0	51.2	51.2	51.6	51.6	51.6	52.4	52.4	52.7	52.9			
GE 6000   35.1	46.6	49.1	50.1	51.3	51.6	51.7	51.9	51.9	52.4	52.4	52.4	53.1	53.1	53.4	53.7			
LE 5000   36.2	49.2	51.8	53.0	54.5	54.8	54.9	55.2	55.2	55.6	55.6	55.6	56.3	56.3	56.7	56.9			
GC 4500   38.4	52.5	55.3	56.5	58.0	58.3	58.5	58.7	58.7	59.1	59.1	59.1	59.9	59.9	60.2	60.4			
GE 4000   38.8	55.3	56.1	57.3	59.8	59.1	59.4	59.6	59.6	60.0	60.0	60.0	60.8	60.8	61.1	61.3			
GE 3500   40.9	55.7	58.5	59.7	61.2	61.6	61.8	62.0	62.0	62.5	62.5	62.5	63.2	63.2	63.5	63.8			
GE 3000   43.9	60.4	63.3	64.5	66.0	66.6	67.0	67.2	67.2	67.6	67.6	67.6	68.4	68.4	68.7	68.9			
GE 2500   48.1	66.3	69.4	70.5	72.4	72.9	73.3	73.7	73.7	74.1	74.1	74.1	74.8	74.8	75.2	75.4			
GE 2000   51.1	70.8	73.9	75.2	77.1	77.6	78.4	78.8	79.2	79.2	79.2	80.0	80.0	80.3	80.5				
GE 1800   51.8	72.3	75.6	77.1	79.1	79.7	80.4	80.9	80.9	81.3	81.3	81.3	82.0	82.0	82.4	82.6			
GE 1500   53.3	76.3	80.3	82.2	84.2	84.7	85.6	86.0	86.0	86.5	86.5	86.5	87.2	87.2	87.5	87.7			
GE 1200   54.2	78.1	82.3	84.3	86.3	87.0	87.8	88.4	88.4	88.8	88.8	88.8	89.6	89.6	89.9	90.1			
GE 1000   54.7	79.6	84.0	86.0	88.2	88.8	89.9	90.4	90.4	90.9	90.9	90.9	91.6	91.6	91.9	92.2			
GE 900   54.9	80.2	84.7	87.1	89.2	89.9	91.0	91.5	91.5	91.9	91.9	91.9	92.7	92.7	93.0	93.2			
GE 800   55.1	80.3	84.8	87.2	89.4	90.0	91.3	91.9	91.9	92.4	92.4	92.4	93.1	93.1	93.4	93.7			
GE 700   55.1	80.8	85.5	87.6	90.0	90.6	92.0	92.9	93.7	93.7	94.9	94.9	94.1	94.1	94.4	94.6			
GE 600   55.1	80.9	85.6	88.0	90.1	90.9	92.2	93.0	93.0	93.4	93.4	93.4	94.2	94.2	94.5	94.7			
GE 500   55.2	81.0	85.7	88.1	90.5	91.3	92.6	93.4	93.4	93.9	93.9	93.9	94.6	94.6	94.9	95.2			
GE 400   55.2	81.1	85.8	88.2	90.9	91.6	93.1	94.3	94.3	94.7	94.7	94.7	95.5	95.5	95.8	96.0			
GE 300   55.2	81.1	85.8	88.6	91.4	92.2	93.7	94.8	94.8	95.4	95.4	95.4	96.1	96.1	96.5	96.7			
GE 200   55.2	81.1	85.8	88.6	91.4	92.2	93.8	95.1	95.1	95.7	95.7	95.7	96.5	96.5	96.8	97.2			
GE 100   55.2	81.1	85.8	88.6	91.4	92.2	93.8	95.1	95.1	95.8	95.8	95.8	96.9	96.9	97.2	98.7			
GE 0   55.2	81.1	85.8	88.6	91.4	92.2	93.8	95.1	95.1	95.8	95.8	95.8	96.9	96.9	97.4	100.0			

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NG CEIL   27.3	39.4	41.1	41.6	42.7	42.7	43.5	43.8	43.8	44.2	44.8	44.8	45.8	45.8	46.0	46.0	46.2		
GE 2000  28.2	40.6	42.5	43.2	44.1	44.1	44.9	45.2	45.2	45.6	46.2	46.2	47.3	47.3	47.5	47.7			
GE 1800  28.2	40.6	42.5	43.2	44.1	44.1	44.9	45.2	45.2	45.6	46.2	46.2	47.3	47.3	47.5	47.7			
GE 1600  28.2	40.6	42.5	43.2	44.1	44.1	44.9	45.2	45.2	45.6	46.2	46.2	47.3	47.3	47.5	47.7			
GE 1400  28.2	40.8	42.6	43.3	44.2	44.2	45.1	45.3	45.3	45.7	46.3	46.3	47.4	47.4	47.6	47.8			
GE 1200  28.6	41.2	43.0	43.6	44.6	44.6	45.5	45.7	45.7	46.1	46.8	46.8	47.8	47.8	48.1	48.3			
GE 1000  28.8	42.0	44.0	44.7	45.6	45.6	46.5	46.7	46.7	47.1	47.7	47.7	48.8	48.8	49.0	49.2			
GE 900  28.9	42.2	44.1	44.8	45.7	45.7	46.6	46.8	46.8	47.2	47.8	47.8	48.9	48.9	49.1	49.4			
GE 800  30.5	44.5	46.5	47.1	48.2	48.2	49.0	49.2	49.2	49.7	50.3	50.3	51.4	51.4	51.6	51.8			
GE 700  31.4	45.6	47.6	48.4	49.5	49.5	50.3	50.5	50.5	51.0	51.6	51.6	52.8	52.8	53.0	53.2			
GE 600  32.0	46.3	46.5	49.4	50.5	50.5	51.4	51.6	51.6	52.3	52.7	52.7	53.9	53.9	54.1	54.3			
GE 500  33.3	48.7	50.9	51.7	53.0	53.0	53.9	54.1	54.1	54.5	55.2	55.2	56.5	56.5	56.7	56.9			
GE 4500  34.4	50.5	52.8	53.7	54.9	54.9	55.8	56.0	56.1	56.6	57.2	57.2	58.5	58.5	58.7	58.9			
GE 4000  34.5	51.7	54.6	54.8	56.1	56.1	57.3	57.5	57.6	58.1	58.7	58.7	60.0	60.0	60.2	60.4			
GE 3500  36.8	54.2	56.5	57.3	58.6	58.6	59.8	60.0	60.1	60.5	61.2	61.2	62.5	62.5	62.7	62.9			
GE 3000  39.0	57.4	59.7	60.8	62.3	62.3	63.5	63.8	63.9	64.3	64.9	64.9	66.2	66.2	66.5	66.7			
GE 2500  43.1	64.2	66.6	67.7	69.2	69.2	70.5	70.8	70.9	71.3	71.9	71.9	73.2	73.2	73.4	73.7			
GE 2000  45.5	68.7	71.5	73.0	74.8	75.1	76.5	76.7	76.9	77.3	78.1	78.1	79.4	79.4	79.6	79.8			
GE 1800  46.6	70.6	73.4	74.9	76.8	77.0	78.5	78.7	78.9	79.4	80.1	80.1	81.4	81.4	81.6	81.8			
GE 1500  48.1	73.5	76.9	78.7	80.5	80.9	82.4	82.6	82.8	83.2	84.0	84.0	85.3	85.3	85.5	85.7			
GE 1200  48.8	75.8	79.2	81.1	83.0	83.3	84.8	85.1	85.3	85.7	86.5	86.5	87.7	87.7	88.0	88.2			
GE 1000  49.4	77.0	81.0	83.1	85.4	85.8	87.5	87.7	88.0	88.5	89.4	89.4	90.6	90.6	90.8	91.1			
GE 900  49.6	77.7	81.8	84.0	86.2	86.8	89.5	89.7	89.9	89.5	90.3	90.3	91.6	91.6	91.8	92.0			
GE 800  49.7	77.8	82.2	84.3	86.8	87.4	89.2	89.5	89.7	90.2	91.1	91.1	92.4	92.4	92.6	92.8			
GE 700  49.8	78.2	82.5	84.7	87.3	88.0	89.8	90.1	90.3	90.9	91.7	91.7	93.0	93.0	93.2	93.4			
GE 600  49.9	78.4	82.8	85.1	87.7	88.6	90.4	90.8	91.0	91.5	92.4	92.4	93.7	93.7	93.9	94.1			
GE 500  49.9	78.4	82.8	85.4	88.5	89.4	91.3	92.0	92.3	92.8	93.7	93.7	94.9	94.9	95.2	95.4			
GE 400  49.9	78.6	83.1	85.8	89.0	89.9	92.3	93.3	93.5	94.2	95.1	95.1	96.3	96.3	96.6	96.8			
GE 300  49.9	78.6	83.1	85.8	99.1	96.0	92.7	93.8	94.1	94.9	95.8	95.8	97.1	97.1	97.5	97.7			
GE 200  49.9	78.6	83.1	95.8	89.1	90.0	92.7	93.6	94.1	94.9	95.9	95.9	97.2	97.2	97.6	98.2			
GE 100  49.9	78.6	83.1	95.8	89.1	90.0	92.7	93.8	94.1	94.9	96.2	96.2	97.6	97.6	98.4	99.0			
GE 0  49.9	78.6	83.1	95.8	89.1	90.0	92.7	93.8	94.1	94.9	96.2	96.2	97.6	97.6	98.5	100.0			

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0600-0800

CEILING	VISIBILITY IN STATUTE MILES															
	IN	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NC CEIL	21.0	20.4	31.8	33.2	34.6	34.9	35.6	36.2	36.2	36.7	37.1	37.1	37.3	37.6	38.3	38.7
GE 20000	23.9	23.9	35.3	36.7	38.1	38.4	39.2	39.9	39.9	40.3	40.8	40.8	41.0	41.3	41.9	42.4
GE 18000	24.0	34.0	35.4	36.8	38.2	38.5	39.4	40.0	40.0	40.4	40.9	40.9	41.1	41.4	42.0	42.5
GE 16000	24.0	24.0	35.4	36.6	38.2	38.5	39.4	40.0	40.0	40.4	40.9	40.9	41.1	41.4	42.0	42.5
GE 14000	24.1	34.4	35.8	37.2	38.6	38.9	39.8	40.4	40.4	40.9	41.3	41.3	41.5	41.8	42.5	42.9
GE 12000	25.1	35.4	36.0	38.2	39.6	39.9	40.8	41.4	41.4	41.8	42.3	42.3	42.5	42.8	43.4	43.9
GE 10000	26.1	36.6	38.2	39.7	41.1	41.4	42.3	42.9	42.9	43.3	43.8	43.8	44.0	44.3	44.9	45.4
GE 9000	26.2	36.6	37.4	39.9	41.3	41.6	42.5	43.1	43.1	43.5	44.0	44.0	44.2	44.5	45.2	45.6
GE 8000	27.0	38.9	40.6	42.4	43.7	44.0	44.9	45.7	45.7	46.1	46.6	46.6	46.9	47.2	48.0	48.4
GE 7000	28.4	40.9	42.7	44.2	45.9	46.2	47.2	48.0	48.0	48.4	48.8	48.8	49.1	49.5	50.2	50.6
GE 6000	29.1	41.7	43.5	45.1	46.8	47.1	48.2	48.9	48.9	49.4	49.9	49.9	50.2	50.5	51.3	51.7
GE 5000	30.0	42.9	44.8	46.5	48.2	48.5	49.8	50.5	50.5	51.0	51.6	51.6	51.9	52.3	53.0	53.4
GE 4500	31.8	45.3	47.5	49.7	51.5	51.9	53.2	54.0	54.1	54.5	55.3	55.3	55.7	56.0	56.8	57.2
GE 4000	32.5	46.9	49.1	51.3	53.1	53.5	54.8	55.6	55.7	56.1	56.9	56.9	57.3	57.6	58.4	58.8
GE 3500	34.2	49.1	51.4	53.7	55.5	55.9	57.3	58.1	58.2	58.6	59.4	59.4	60.1	60.9	61.3	61.7
GE 3000	36.6	53.0	55.4	57.8	59.7	60.1	61.6	62.4	62.5	62.9	63.7	63.7	64.1	64.4	65.2	65.6
GE 2500	40.2	58.2	60.9	63.4	65.8	66.7	68.2	69.1	69.2	69.7	70.4	70.4	70.9	71.2	72.0	72.5
GE 2000	43.3	62.8	65.7	69.0	71.2	72.0	73.5	74.5	74.6	75.1	75.8	75.8	76.2	76.6	77.4	77.8
GE 1800	44.6	64.7	67.6	71.0	73.1	74.0	75.5	76.5	76.6	77.0	77.7	77.7	78.2	78.5	79.4	79.8
GE 1500	46.2	67.1	77.4	79.0	76.2	77.2	79.0	80.0	80.1	80.6	81.4	81.4	81.8	82.2	83.0	83.4
GE 1200	46.9	68.5	72.0	75.7	78.2	79.1	81.0	82.0	82.2	82.7	83.4	83.4	84.2	85.1	85.5	85.9
GE 1000	47.2	69.8	74.0	77.0	80.5	81.6	83.5	84.6	84.7	85.3	86.0	86.0	86.5	86.8	87.6	88.1
GE 900	47.3	70.5	74.6	78.9	81.8	83.1	85.1	86.1	86.2	86.8	87.5	87.5	88.0	88.3	89.1	89.6
GE 800	47.4	71.1	75.4	79.8	82.8	84.1	86.0	87.1	87.2	87.7	88.5	88.5	88.9	89.4	90.2	90.6
GE 700	47.6	71.5	76.0	80.8	84.2	85.5	87.5	88.6	88.7	89.2	90.1	90.1	90.5	91.0	91.8	92.3
GE 600	47.6	71.7	76.5	81.2	84.8	86.2	88.6	89.9	90.1	90.6	91.6	91.6	92.0	92.5	93.3	93.8
GE 500	47.6	71.7	76.9	81.6	85.7	87.2	89.6	91.0	91.4	92.2	93.2	93.2	93.7	94.1	94.9	95.4
GE 400	47.6	71.8	77.0	81.9	85.8	87.3	89.8	91.2	91.6	92.6	93.7	93.7	94.1	94.5	95.4	95.8
GE 300	47.6	71.8	77.0	81.9	85.9	87.4	89.9	91.3	91.8	93.2	94.0	94.5	95.1	95.5	96.7	97.4
GE 200	47.6	71.8	77.1	82.0	86.0	87.5	90.0	91.4	91.9	93.3	94.6	94.7	95.3	95.7	96.9	97.6
GE 100	47.6	71.8	77.1	82.0	86.0	87.5	90.0	91.4	91.9	93.3	94.7	94.9	95.5	96.1	97.6	99.1
GL 0	47.6	71.8	77.1	82.0	86.0	87.5	90.0	91.4	91.9	93.3	94.7	94.9	95.5	96.2	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 950

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORDS: 77-86  
MONTH: OCT HOURS(SLT): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL 1	26.6	32.3	33.4	34.4	34.6	35.3	35.5	35.8	35.9	36.1	36.1	36.1	36.2	36.2	36.3	36.3		
GE 200001	28.6	35.4	36.9	37.4	38.1	38.7	39.0	39.4	39.5	39.8	39.8	39.8	39.9	39.9	40.0	40.0		
GE 160001	28.9	35.7	37.2	38.2	38.4	39.0	39.4	39.7	39.8	40.1	40.1	40.1	40.2	40.2	40.3	40.3		
GE 160001	28.9	35.7	37.2	38.2	38.4	39.0	39.4	39.7	39.8	40.1	40.1	40.1	40.2	40.2	40.3	40.3		
GE 140001	29.2	36.0	37.5	38.5	39.7	39.4	39.7	40.0	40.1	40.4	40.4	40.4	40.5	40.5	40.6	40.6		
GE 120001	30.1	37.3	38.8	39.8	40.0	40.6	41.0	41.3	41.4	41.7	41.7	41.7	41.8	41.8	41.9	41.9		
GE 100001	31.1	38.5	40.1	41.2	41.5	42.2	42.5	42.8	42.9	43.2	43.2	43.2	43.3	43.3	43.4	43.4		
GE 90001	31.3	38.8	40.4	41.7	42.0	42.8	43.1	43.4	43.5	43.9	43.9	43.9	44.0	44.0	44.1	44.1		
GE 80001	33.0	41.2	42.9	44.2	44.7	45.6	45.9	46.3	46.5	46.6	46.6	46.6	46.9	46.9	47.0	47.0		
GE 70001	34.6	43.2	44.9	46.2	46.6	47.6	48.0	48.4	48.5	48.8	48.8	48.8	48.9	48.9	49.0	49.0		
GE 60001	35.3	44.0	45.7	47.0	47.5	48.4	48.7	49.1	49.2	49.6	49.6	49.6	49.7	49.7	49.8	49.8		
GE 50001	36.1	44.9	46.8	46.3	48.9	49.8	50.1	50.5	50.6	51.0	51.0	51.0	51.1	51.1	51.2	51.2		
GE 45001	37.4	46.6	48.4	50.1	50.9	51.7	52.0	52.7	52.8	53.1	53.1	53.1	53.2	53.2	53.3	53.3		
GE 40001	38.5	47.8	49.7	51.4	52.2	53.0	53.3	54.0	54.1	54.5	54.5	54.5	54.6	54.6	54.7	54.7		
GE 35001	40.5	50.2	52.2	53.9	54.7	55.6	55.9	56.6	56.7	57.1	57.1	57.1	57.3	57.3	57.4	57.4		
GE 30001	42.7	53.4	55.5	57.2	58.1	58.9	59.4	60.1	60.2	60.6	60.6	60.6	60.9	60.9	61.0	61.0		
GE 25001	46.9	60.0	62.3	64.1	65.1	65.9	66.3	67.2	67.3	67.7	67.7	67.7	68.0	68.0	68.1	68.1		
GE 20001	51.7	66.3	68.9	71.1	72.3	73.3	73.8	74.6	74.7	75.2	75.2	75.2	75.4	75.4	75.5	75.5		
GE 18001	53.7	68.6	71.4	73.9	75.1	76.2	76.7	77.5	77.6	78.1	78.1	78.1	78.3	78.3	78.4	78.4		
GE 15001	56.2	73.8	77.0	79.8	81.1	82.3	82.7	83.7	83.8	84.2	84.2	84.2	84.4	84.4	84.5	84.5		
GE 12001	57.0	75.6	79.1	81.9	83.2	84.4	85.8	85.9	86.5	86.5	86.5	86.5	86.7	86.7	86.8	86.8		
GE 10001	57.6	76.7	80.6	83.4	85.1	86.3	86.9	88.0	88.1	88.6	88.6	88.6	88.8	88.8	88.9	88.9		
GE 9001	57.6	76.8	80.8	83.7	85.3	86.6	87.1	88.2	88.3	88.6	88.6	88.6	89.0	89.0	89.1	89.1		
GE 8001	57.7	77.8	81.8	84.8	86.6	87.8	88.5	89.6	89.7	90.2	90.2	90.2	90.4	90.4	90.5	90.5		
GE 7001	57.7	78.1	82.3	85.3	87.7	89.0	89.8	91.0	91.1	91.7	91.7	91.7	91.9	91.9	92.0	92.0		
GE 6001	57.7	78.3	82.8	85.9	88.7	90.0	91.0	92.5	92.6	93.2	93.2	93.2	93.4	93.4	93.5	93.5		
GE 5001	57.7	78.3	83.2	86.7	89.7	91.1	92.5	94.3	94.4	95.1	95.1	95.1	95.3	95.3	95.4	95.4		
GE 4001	57.7	78.4	83.3	86.8	90.0	91.7	93.1	95.7	95.8	96.9	96.9	96.9	97.1	97.1	97.2	97.2		
GE 3001	57.7	78.5	83.4	86.9	90.3	92.0	93.4	96.2	96.5	97.5	97.5	97.5	98.1	98.2	98.4	98.4		
GE 2001	57.7	78.5	83.4	86.9	90.3	92.0	93.5	96.3	96.6	97.7	98.1	98.3	98.8	98.9	99.5	99.5		
GE 1001	57.7	78.5	83.4	86.9	90.3	92.0	93.5	96.3	96.6	97.7	99.1	99.3	99.8	99.8	99.8	99.8		
GE 01	57.7	78.5	83.4	86.9	90.3	92.0	93.5	96.3	96.6	97.7	98.1	98.3	98.8	99.0	99.9	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFA/TAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: OCT HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16	GE 17
NC CEIL	27.5	33.4	34.1	34.1	34.4	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
UF 20000	30.9	37.6	38.3	38.4	38.6	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 18000	31.1	37.8	38.5	38.6	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 16000	31.1	37.8	38.5	38.6	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 14000	31.1	37.8	38.5	38.6	39.0	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
GE 12000	31.8	38.8	39.6	39.7	40.1	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
GE 10000	33.3	40.8	41.6	41.7	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
GE 9000	34.1	41.8	42.7	42.8	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
GE 8000	35.1	43.0	43.9	44.0	44.4	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 7000	35.8	44.3	45.2	45.3	45.7	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
GE 6000	36.9	45.4	46.2	46.3	46.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 5000	37.7	46.3	47.2	47.4	47.8	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 4500	38.9	47.7	48.8	48.9	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 4000	39.5	48.5	49.7	49.9	50.4	50.6	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
GE 3500	42.7	52.0	53.2	53.4	54.1	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 3000	46.7	57.3	58.5	58.7	59.4	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 2500	53.4	67.2	68.6	68.9	69.7	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 2000	59.8	75.6	77.2	77.5	78.3	78.7	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 1800	61.2	77.6	77.4	79.9	80.6	81.1	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 1500	63.8	82.5	84.7	85.6	86.3	87.1	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 1200	64.4	84.2	86.7	87.6	88.4	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 1000	64.7	85.3	87.7	89.1	90.0	91.0	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 900	64.7	86.0	88.6	90.1	91.0	91.9	92.3	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 800	64.9	86.5	89.2	90.8	91.6	92.6	93.2	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 700	64.9	87.0	90.0	91.6	92.8	93.8	94.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	65.1	87.1	90.1	91.8	93.1	94.1	95.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 500	65.1	87.3	90.5	92.3	93.7	94.6	96.2	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 400	65.1	87.3	90.5	92.4	93.8	94.7	96.3	98.7	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.8	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 200	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.6	99.0	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8
GE 100	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.8	99.0	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9
GF 0	65.1	87.3	90.5	92.4	93.8	94.8	96.5	98.6	99.0	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639G STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	10	6	5	4	3	2	1 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	GE 0	
NO CEIL	30.0	35.6	36.3	36.6	36.8	36.8	36.8	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	
GE 20000	35.3	41.8	42.8	43.0	43.3	43.5	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	
GE 18000	35.4	41.9	42.9	43.1	43.4	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	
GE 16000	35.4	41.9	42.9	43.1	43.4	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	
GE 14000	35.6	42.2	43.1	43.3	43.7	43.9	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	
GE 12000	35.8	42.5	43.5	43.8	44.1	44.3	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	
GE 10000	37.7	44.9	46.0	46.2	46.6	46.8	46.9	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	
GE 9000	38.1	45.3	46.3	46.6	46.9	47.1	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	
GE 8000	38.8	46.6	47.8	48.1	48.5	48.7	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	
GE 7000	39.5	47.5	48.8	49.0	49.7	49.9	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	
GE 6000	40.4	48.6	49.9	50.1	50.6	51.0	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	
GE 5000	41.3	49.6	51.1	51.3	51.9	52.2	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	
GE 4500	42.7	52.2	53.4	53.8	54.7	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	
GE 4000	43.4	52.9	54.2	54.5	55.5	55.9	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	
GE 3500	46.5	56.1	57.4	57.7	58.8	59.2	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	
GE 3000	51.6	62.2	63.5	64.0	65.2	65.6	66.1	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	
GE 2500	58.5	71.5	73.2	73.8	75.2	75.6	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	
GE 2000	63.0	79.5	81.5	82.2	83.5	84.0	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	
GE 1800	65.3	81.6	83.7	84.3	85.7	86.1	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	
GE 1500	66.8	84.9	87.0	87.8	89.2	89.7	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	
GE 1200	67.0	86.2	88.5	89.7	91.2	91.6	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	
GE 1000	67.2	87.4	90.0	91.4	92.9	93.3	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	
GE 900	67.6	87.6	93.3	91.7	93.2	93.6	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	
GE 800	67.2	87.8	93.9	92.4	93.9	94.4	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	
GE 700	67.2	88.0	91.1	92.6	94.3	94.8	96.0	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	
GE 600	67.2	88.0	91.2	92.8	94.6	95.2	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
GE 500	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	
GE 400	67.2	88.2	91.4	93.0	95.3	95.9	97.3	98.5	98.6	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	
GE 300	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 200	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	
GE 100	67.2	88.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	
GE 0	67.2	98.2	91.4	93.0	95.3	95.9	97.6	98.8	98.9	99.4	99.7	99.8	99.9	99.9	99.9	99.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
U.S.A.F.TAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: OCT HOURS(LST): 1400-2000

CEILING IN. FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL   31.8	38.4	39.0	39.2	39.8	40.0	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.4	40.4	
GE 20000   33.9	41.2	41.9	42.2	43.0	43.2	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7	
GE 18000   33.9	41.2	41.9	42.2	43.0	43.2	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7	
GE 16000   33.9	41.2	41.9	42.2	43.0	43.2	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.7	43.7	
GE 14000   34.0	41.6	41.6	41.6	42.6	43.4	43.7	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.1	44.1	
GE 12000   34.3	42.2	43.2	43.4	44.3	44.5	44.7	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.9	44.9	
GE 10000   36.2	44.6	45.7	45.9	46.8	47.0	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.4	47.4	
GE 9000   36.5	44.8	45.9	46.1	47.0	47.2	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.6	47.6	47.6	
GE 8000   38.7	47.4	48.5	48.7	49.8	50.0	50.2	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.4	50.4	50.4	
GE 7000   40.3	49.6	50.6	50.9	51.9	52.2	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.6	52.6	
GE 6000   41.8	51.2	52.3	52.5	53.5	53.8	54.0	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.2	
GE 5000   42.5	52.5	53.7	53.9	54.9	55.2	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.6	55.6	55.6	
GE 4500   45.1	55.6	57.0	57.2	58.3	58.5	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.9	58.9	58.9	
GE 4000   45.7	56.7	58.1	58.3	59.4	59.6	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0	60.0	
GE 3500   47.6	59.4	60.8	61.0	62.3	62.5	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9	62.9	62.9	
GE 3000   51.9	64.5	66.5	66.7	68.1	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	
GE 2500   58.3	72.7	74.9	75.4	76.9	77.2	77.6	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.2	
GE 2000   61.6	80.0	82.5	83.0	P4.6	84.5	85.5	85.7	85.7	R6.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1	86.1	
GE 1800   62.7	81.3	84.1	84.6	86.2	86.6	87.1	87.3	87.3	P7.6	87.6	87.6	87.6	87.6	87.6	87.7	87.7	87.7	
GE 1500   64.0	83.0	86.2	86.8	P8.4	88.9	89.6	89.8	89.8	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.3	
GE 1200   64.3	83.8	87.1	87.6	P9.2	89.8	90.4	90.6	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.2	91.2	91.2	
GE 1000   64.9	84.6	88.3	P8.8	90.5	91.2	92.2	92.4	92.4	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	
GE 900   65.2	84.9	88.6	89.1	90.9	91.6	92.8	93.3	93.3	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.0	94.0	
GE 800   65.3	85.2	88.8	89.5	91.3	92.0	93.4	94.0	94.0	94.5	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	
GE 700   65.3	85.3	89.1	89.8	91.6	92.4	93.9	94.4	94.4	94.9	94.9	94.9	94.9	94.9	94.9	95.2	95.2	95.2	
GE 600   65.3	85.3	89.1	90.0	91.8	92.6	94.2	94.7	94.7	95.4	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	
GE 500   65.3	85.3	89.1	90.0	92.0	92.8	94.8	95.6	95.7	96.5	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	
GE 400   65.3	85.3	89.1	90.1	92.5	93.2	95.7	96.6	96.8	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	
GE 300   65.3	85.3	89.1	90.1	92.5	93.3	95.9	97.0	97.2	98.2	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	
GE 200   65.3	85.3	89.1	90.1	92.5	93.3	96.0	97.1	97.3	98.3	98.4	98.4	98.4	98.4	98.5	98.7	98.7	98.7	
GE 100   65.3	85.3	89.1	90.1	92.5	93.3	96.0	97.1	97.4	98.4	98.8	98.8	98.8	98.8	98.9	99.4	99.4	99.4	
GE 0   65.3	85.3	89.1	90.1	92.5	93.3	96.0	97.1	97.4	98.4	98.8	98.8	98.8	98.8	99.0	99.5	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: OCT HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	32.2	40.0	41.3	41.8	42.7	42.7	42.7	42.8	42.8	42.9	42.9	43.0	43.2	43.2	43.7	43.9
GE 20000	33.7	42.4	43.7	44.3	45.4	45.4	45.4	45.5	45.5	45.6	45.7	45.9	45.9	46.3	46.6	
GE 18000	33.7	42.4	43.7	44.3	45.4	45.4	45.4	45.5	45.5	45.6	45.7	45.9	45.9	46.3	46.6	
GE 16000	33.7	42.4	43.7	44.3	45.4	45.4	45.4	45.5	45.5	45.6	45.7	45.9	45.9	46.3	46.6	
GE 14000	33.8	42.6	44.1	44.7	45.8	45.8	45.8	45.9	45.9	46.0	46.1	46.3	46.3	46.8	47.0	
GE 12000	34.1	43.1	44.7	45.4	46.5	46.5	46.5	46.6	46.6	46.7	46.8	47.0	47.4			
GE 10000	35.2	44.5	46.1	46.8	48.1	48.1	48.1	48.2	48.2	48.3	48.4	48.6	48.6	49.0	49.2	
GE 9000	35.3	44.7	46.3	47.0	48.3	48.3	48.3	48.4	48.4	48.5	48.5	48.8	48.8	49.2	49.5	
GE 8000	37.0	47.0	48.6	49.2	51.0	51.0	51.0	51.1	51.1	51.2	51.2	51.3	51.5	51.9	52.2	
GE 7000	38.3	48.6	50.3	51.2	52.9	52.9	52.9	53.0	53.0	53.1	53.1	53.2	53.4	53.9	54.1	
GE 6000	39.2	49.9	51.7	52.6	54.4	54.4	54.4	54.5	54.5	54.6	54.7	54.9	54.9	55.4	55.6	
GE 5000	40.4	51.7	53.5	54.4	56.5	56.5	56.5	56.6	56.8	56.9	56.9	57.0	57.2	57.2	57.6	57.8
GE 4500	43.0	54.6	56.8	57.7	59.8	59.8	59.8	60.1	60.1	60.2	60.2	60.3	60.5	61.0	61.2	
GE 4000	43.8	55.9	58.2	59.1	61.2	61.2	61.2	61.5	61.5	61.6	61.6	61.7	61.9	61.9	62.4	62.6
GE 3500	46.2	60.1	62.4	63.3	65.5	65.6	65.6	66.0	66.0	66.1	66.1	66.2	66.5	66.5	67.1	
GE 3000	50.5	66.2	68.6	69.6	71.7	71.8	71.9	72.4	72.4	72.5	72.5	72.6	72.8	73.2	73.4	
GE 2500	53.5	71.2	74.1	75.1	77.2	77.4	77.7	78.2	78.2	78.3	78.3	78.4	78.6	78.6	79.0	79.2
GE 2000	56.0	75.5	78.6	79.6	81.9	82.2	82.5	83.1	83.1	83.2	83.2	83.3	83.5	83.5	84.0	84.2
GE 1800	56.5	76.3	79.5	80.4	82.9	83.1	83.4	84.3	84.3	84.4	84.4	84.5	84.6	84.8	84.8	85.5
GE 1500	58.8	80.0	84.0	84.9	87.4	87.6	88.0	88.6	88.8	89.0	89.2	89.4	89.6	89.6	90.0	90.2
GE 1200	59.0	80.8	84.8	85.6	88.4	88.6	88.9	89.9	89.9	90.1	90.3	90.4	90.6	90.6	91.1	91.3
GE 1000	59.7	82.0	86.3	87.6	90.3	90.6	91.1	92.0	92.2	92.4	92.6	92.7	92.9	92.9	93.3	93.5
GE 900	59.8	82.5	86.9	88.3	91.1	91.5	91.9	92.9	93.0	93.2	93.4	93.5	93.8	94.2	94.4	
GE 800	59.9	82.9	87.4	89.0	91.8	92.3	92.7	93.7	93.8	94.0	94.2	94.3	94.5	94.9	95.2	
GE 700	59.9	83.1	87.7	89.4	92.3	92.7	93.2	94.2	94.3	94.5	94.7	94.8	95.1	95.5	95.7	
GE 600	59.9	83.3	88.0	89.6	92.5	92.9	93.8	94.7	94.8	95.1	95.3	95.4	95.6	96.0	96.2	
GE 500	59.9	83.3	88.1	89.7	92.6	93.0	93.9	94.8	94.9	95.2	95.4	95.5	95.7	95.7	96.1	96.3
GE 400	59.9	63.4	88.2	89.9	92.9	93.3	94.5	95.8	96.0	96.3	96.6	96.7	96.9	96.9	97.3	97.5
GE 300	59.9	83.4	88.2	89.9	92.9	93.3	94.5	95.6	96.1	96.6	96.9	97.0	97.3	97.7	98.0	
GE 200	59.9	83.4	88.2	89.9	92.9	93.3	94.6	96.2	96.6	97.3	97.6	97.7	98.1	98.5	98.7	
GE 100	59.9	83.4	88.2	89.9	92.9	93.3	94.6	96.2	96.7	97.5	98.1	98.2	98.5	98.5	98.9	99.0
GE C	59.9	83.4	88.2	89.9	92.9	93.3	94.6	96.2	96.7	97.5	98.1	98.2	98.5	98.5	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFAETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NC CEIL	28.2	36.1	37.3	37.9	38.5	38.7	39.0	39.2	39.2	39.4	39.5	39.6	39.8	39.9	40.1	40.2
GE 2000	37.6	39.2	40.6	41.2	41.9	42.2	42.5	42.7	42.7	42.9	43.0	43.1	43.3	43.4	43.6	43.8
GE 1800	30.7	39.3	40.7	41.3	42.0	42.3	42.6	42.6	42.8	43.0	43.1	43.1	43.4	43.5	43.7	43.8
GE 1600	30.7	39.3	40.7	41.3	42.0	42.3	42.6	42.8	42.8	43.0	43.1	43.1	43.4	43.5	43.7	43.8
GE 1400	30.8	39.6	40.9	41.6	42.3	42.5	42.8	43.0	43.0	43.2	43.4	43.4	43.7	43.7	44.0	44.1
GE 1200	31.4	40.3	41.7	42.4	43.1	43.3	43.6	43.9	43.9	44.1	44.2	44.2	44.5	44.6	44.8	44.9
GE 1000	32.5	41.8	43.3	44.0	44.8	45.0	45.3	45.6	45.6	45.8	45.9	45.9	46.2	46.3	46.5	46.6
GE 900	32.8	42.2	43.7	44.4	45.2	45.4	45.7	46.0	46.0	46.2	46.3	46.3	46.6	46.7	46.9	47.0
GE 800	34.2	44.2	45.8	46.5	47.5	47.8	48.1	48.3	48.3	48.5	48.7	48.7	49.0	49.0	49.3	49.4
GE 700	35.3	45.7	47.3	48.1	49.1	49.4	49.7	50.0	50.0	50.2	50.3	50.3	50.7	50.7	50.9	51.1
GE 600	36.2	46.7	48.4	49.1	50.5	50.8	51.1	51.1	51.1	51.3	51.4	51.5	51.8	51.8	52.1	52.2
GE 500	37.2	48.3	50.0	50.8	52.0	52.3	52.6	52.9	52.9	53.1	53.3	53.3	53.6	53.7	53.9	54.0
GE 4500	39.0	50.6	52.5	53.4	54.7	55.0	55.4	55.7	55.7	56.0	56.1	56.1	56.5	56.5	56.8	56.9
GE 4000	39.6	51.7	53.6	54.6	55.8	56.2	56.6	56.9	56.9	57.2	57.4	57.4	57.7	57.8	58.0	58.1
GE 3500	41.9	54.6	56.5	57.5	58.8	59.2	59.7	60.0	60.0	60.3	60.4	60.4	60.8	61.0	61.2	61.4
GE 3000	45.4	59.3	61.4	62.4	63.8	64.2	64.7	65.1	65.1	65.3	65.5	65.5	65.9	65.9	66.2	66.3
GE 2500	50.3	66.4	68.7	69.9	71.4	71.9	72.5	72.9	72.9	73.2	73.4	73.4	73.8	73.8	74.1	74.2
GE 2000	54.1	72.4	75.0	76.3	78.0	78.5	79.2	79.7	79.7	80.0	80.2	80.2	80.6	80.6	81.0	
GE 1800	55.3	74.1	76.8	78.3	79.9	80.5	81.2	81.7	81.8	82.0	82.2	82.3	82.6	82.7	82.9	83.1
GE 1500	57.2	77.6	80.8	82.5	84.2	84.8	85.6	86.1	86.2	86.5	86.7	86.7	87.1	87.1	87.4	87.5
GE 1200	57.7	79.1	82.5	84.2	86.0	86.6	87.5	88.0	88.1	88.4	88.6	88.6	89.0	89.0	89.3	89.4
GE 1000	58.2	80.3	84.0	85.9	87.9	88.6	89.6	90.2	90.2	90.6	90.8	90.8	91.2	91.2	91.5	91.6
GE 900	58.3	80.8	84.6	86.6	88.6	89.4	90.4	91.1	91.1	91.5	91.7	91.7	92.1	92.1	92.4	92.5
GE 800	58.4	81.2	85.1	87.2	89.3	90.1	91.2	91.9	92.0	92.4	92.6	92.6	93.0	93.0	93.3	93.4
GE 700	58.4	81.5	85.5	87.7	90.0	90.9	92.1	93.0	93.0	93.4	93.7	93.7	94.0	94.1	94.3	94.5
GE 600	58.5	81.6	85.8	88.0	90.4	91.3	92.7	93.7	93.8	94.1	94.4	94.4	94.8	94.8	95.1	95.2
GE 500	58.5	81.7	86.0	88.4	91.0	91.9	93.5	94.7	94.8	95.3	95.6	95.6	95.9	96.0	96.3	96.4
GE 400	58.5	81.8	86.1	88.5	91.3	92.2	94.0	95.5	95.7	96.3	96.6	96.7	97.0	97.1	97.3	97.5
GE 300	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.6	96.1	96.8	97.2	97.2	97.6	97.7	98.0	98.2
GE 200	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.9	96.2	97.0	97.5	97.5	98.0	98.0	98.5	98.7
GE 100	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.9	96.2	97.1	97.6	97.7	98.2	98.4	98.9	99.5
GE	58.5	81.8	86.1	88.6	91.4	92.4	94.3	95.9	96.2	97.1	97.6	97.7	98.3	98.4	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	19.9	27.1	27.9	28.0	28.1	28.1	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.8	29.0	29.3
GE 20000	20.0	26.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.8	30.0	30.3
GE 18000	20.0	26.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.8	30.0	30.3
GE 16000	20.0	28.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.8	30.0	30.3
GE 14000	20.0	28.0	28.9	29.0	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.8	30.0	30.3
GE 12000	20.6	28.8	29.9	30.0	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.8	31.0	31.3
GE 10000	21.8	30.3	31.4	31.6	31.7	31.7	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.3	32.6	32.9
GE 9000	21.8	30.4	31.6	31.7	31.8	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.4	32.7	33.0
GE 8000	24.3	34.1	35.2	35.4	35.6	35.6	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.2	36.4	36.8
GE 7000	25.4	35.6	36.7	36.9	37.0	37.0	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.7	37.9	38.2
GE 6000	26.2	36.3	37.4	37.7	37.8	37.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.4	38.7	39.0
GE 5000	28.0	38.6	39.7	39.9	40.0	40.0	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.7	40.9	41.2
GE 4500	31.1	42.8	43.9	44.1	44.2	44.2	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.9	45.1	45.4
GE 4000	31.7	43.6	44.7	44.9	45.0	45.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.7	45.9	46.2
GE 3500	34.1	47.3	48.6	48.8	48.9	48.9	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.6	49.8	50.1
GE 3000	38.3	53.2	55.0	55.2	55.4	55.4	55.8	55.8	55.8	55.8	55.8	55.8	55.8	56.1	56.3	56.7
GE 2500	45.2	63.2	65.7	66.1	66.6	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.2	67.4	67.9
GE 2000	50.7	70.9	72.4	74.0	74.4	74.4	74.8	74.8	74.8	74.8	74.8	74.8	74.8	75.1	75.3	75.8
GE 1800	53.4	75.0	77.6	78.2	78.8	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.6	79.8	80.2
GE 1500	56.1	79.2	81.9	82.6	83.3	83.3	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.2	84.4	85.0
GE 1200	56.9	80.3	83.1	83.9	84.7	84.8	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.8	86.0	86.6
GE 1000	57.4	81.4	84.3	85.6	86.3	86.7	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.8	88.0	88.6
GE 900	57.6	82.1	85.0	86.2	87.0	87.3	87.8	87.9	87.9	88.1	88.1	88.1	88.4	88.7	89.2	89.5
GE 800	57.6	82.6	85.7	87.1	87.9	88.3	88.8	88.9	88.9	89.1	89.1	89.1	89.4	89.7	90.2	90.5
GE 700	57.7	82.9	86.2	87.7	88.6	89.0	89.4	89.6	89.6	89.9	89.9	89.9	90.2	90.4	91.0	91.5
GE 600	57.7	82.9	86.6	88.2	89.2	89.6	90.2	90.6	90.6	90.6	90.6	90.6	90.6	91.2	91.4	92.0
GE 500	57.8	83.1	87.1	88.8	89.9	90.4	91.1	91.4	91.4	91.9	92.0	92.0	92.3	92.6	93.1	93.5
GE 400	57.8	83.1	87.2	89.1	90.6	91.1	92.4	93.0	93.0	93.6	94.2	94.2	94.6	94.8	95.3	95.8
GE 300	57.8	83.2	87.6	89.4	91.1	91.8	93.7	94.3	94.3	94.9	95.6	95.6	95.9	95.9	96.3	96.9
GE 200	57.8	83.2	87.6	89.6	91.2	91.9	94.0	94.9	94.9	95.6	96.2	96.2	96.8	96.8	97.4	98.2
GE 100	57.8	83.2	87.6	89.6	91.2	91.9	94.0	95.0	95.1	95.8	96.8	96.8	97.6	99.0	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GL 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	20.0	28.4	29.4	29.4	29.9	29.9	30.1	30.1	30.1	30.1	30.3	30.6	30.7	30.7	30.7	30.9		
GE 2000	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4		
GE 1800	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4		
GE 1600	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4		
GE 1400	20.6	30.0	31.0	31.0	31.4	31.4	31.7	31.7	31.7	31.7	31.9	32.1	32.2	32.2	32.2	32.4		
GE 1200	20.7	30.1	31.1	31.1	31.6	31.6	31.6	31.6	31.6	31.8	31.8	32.0	32.2	32.3	32.3	32.6		
GE 1000	21.2	31.0	32.0	32.2	32.7	32.7	33.0	33.0	33.0	33.0	33.2	33.4	33.6	33.6	33.6	33.8		
GE 900	21.3	31.2	32.2	32.4	32.9	32.9	33.2	33.2	33.2	33.2	33.4	33.7	33.8	33.8	33.8	34.0		
GE 800	23.4	34.7	35.7	35.9	36.4	36.4	36.8	36.8	36.8	36.8	37.0	37.2	37.3	37.3	37.3	37.6		
GE 700	24.9	36.8	37.8	38.0	38.6	38.6	38.9	38.9	38.9	38.9	39.1	39.3	39.4	39.4	39.4	39.7		
GE 600	25.4	37.4	38.4	38.7	39.2	39.2	39.6	39.6	39.6	39.6	39.8	40.0	40.1	40.1	40.1	40.3		
GE 500	27.6	39.9	40.9	41.1	41.7	41.7	42.0	42.0	42.0	42.0	42.2	42.4	42.6	42.6	42.6	42.8		
GE 450	28.8	41.6	42.0	43.0	43.7	43.7	44.0	44.0	44.0	44.0	44.2	44.4	44.6	44.6	44.6	44.8		
GE 400	29.3	42.6	43.8	44.0	44.7	44.7	45.0	45.0	45.0	45.0	45.2	45.4	45.6	45.6	45.6	45.8		
GE 350	31.4	45.4	46.6	47.0	47.7	47.7	48.0	48.0	48.1	48.1	48.3	48.6	48.7	48.7	48.8	49.0		
GE 300	34.8	50.6	52.7	52.9	53.7	53.7	54.0	54.0	54.1	54.1	54.3	54.6	54.7	54.7	54.8	55.0		
GE 250	41.9	60.6	63.0	63.2	64.1	64.1	64.4	64.4	64.4	64.6	64.8	65.0	65.1	65.1	65.2	65.6		
GE 200	47.4	69.4	72.1	72.6	73.6	73.7	74.0	74.0	74.1	74.1	74.3	74.6	74.7	74.7	74.8	75.1		
GE 180	48.8	72.1	74.9	75.3	76.3	76.4	76.8	76.8	76.9	76.9	77.1	77.3	77.4	77.4	77.4	77.9		
GE 150	52.7	77.8	80.6	81.0	82.3	82.6	83.1	83.2	83.3	83.3	83.6	83.8	83.9	83.9	84.0	84.3		
GE 120	53.7	79.4	82.4	82.9	84.2	84.4	85.0	85.1	85.2	85.3	85.7	85.9	86.0	86.0	86.1	86.4		
GE 100	53.9	81.1	84.3	84.8	86.2	86.4	87.0	87.2	87.3	87.4	87.9	88.1	88.2	88.2	88.3	88.7		
GE 90	54.0	81.7	84.9	85.4	86.5	87.1	87.7	87.9	88.0	88.1	88.6	88.8	88.9	88.9	89.0	89.3		
GE 80	54.2	82.0	85.4	86.2	87.7	87.9	88.7	88.9	89.0	89.2	89.7	89.9	90.0	90.0	90.1	90.4		
GE 70	54.6	82.4	86.2	87.0	88.7	88.9	89.9	90.2	90.3	90.6	91.2	91.4	91.6	91.6	91.7	92.0		
GE 60	54.6	82.7	87.7	87.4	89.2	89.4	90.4	90.8	90.9	91.1	91.8	92.0	92.2	92.3	92.7			
GE 50	54.6	82.8	86.9	88.0	90.0	90.2	91.4	91.8	91.9	92.1	93.0	93.2	93.4	93.6	93.7	94.0		
GE 40	54.6	82.9	87.0	88.3	90.4	90.8	92.1	92.6	92.7	93.0	93.9	94.1	94.3	94.6	94.7	95.0		
GE 30	54.6	82.9	87.0	88.6	90.9	91.2	92.0	93.3	93.4	93.9	94.8	95.0	95.2	95.6	95.9	96.2		
GE 20	54.6	82.9	87.0	88.6	90.9	91.2	91.2	94.0	94.1	94.8	96.4	96.7	96.9	97.2	97.6	98.1		
GE 10	54.6	82.9	87.0	88.6	90.9	91.2	93.2	94.0	94.1	94.9	96.6	96.8	97.3	97.7	98.7	99.3		
GE C	54.6	82.9	87.0	88.6	90.9	91.2	93.2	94.0	94.1	94.9	96.6	96.8	97.3	97.7	98.8	100.0		

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: NOV HOURS(LST): 0600-0600

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1 10	GE 6	GE 5	GE 4	GE 3	GE 2	1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NC CEIL   16.0	24.6	26.0	26.6	27.0	27.3	27.9	27.9	27.9	27.9	28.2	28.3	28.3	28.3	28.3	28.6	28.6
GE 20000  17.0	26.1	27.6	28.1	28.6	29.0	29.6	29.6	29.6	29.6	30.0	30.2	30.2	30.3	30.3	30.6	30.8
GE 18000  17.0	26.1	27.6	28.1	28.6	29.0	29.6	29.6	29.6	29.6	30.0	30.2	30.2	30.3	30.3	30.6	30.8
LE 16000  17.0	26.1	27.6	28.1	28.6	29.0	29.6	29.6	29.6	29.6	30.0	30.2	30.2	30.3	30.3	30.6	30.8
GE 14000  17.0	26.1	27.6	28.1	28.6	29.0	29.6	29.6	29.6	29.6	30.0	30.2	30.2	30.3	30.3	30.6	30.8
GE 12000  17.1	26.2	27.7	28.2	28.7	29.1	29.7	29.7	29.7	29.7	30.1	30.3	30.3	30.3	30.4	30.7	30.9
GE 10000  18.8	28.1	29.7	30.3	30.8	31.3	31.9	31.9	31.9	31.9	32.4	32.7	32.7	32.7	32.8	33.0	33.4
GE 9000  18.8	28.2	29.9	30.6	31.0	31.6	32.1	32.1	32.1	32.1	32.7	32.9	32.9	32.9	33.0	33.2	33.7
GE 8000  20.6	30.8	32.6	33.2	33.7	34.2	34.8	34.8	34.8	34.8	35.3	35.7	35.7	35.8	35.9	36.1	36.6
GE 7000  21.6	32.3	34.1	34.8	35.2	35.8	36.3	36.3	36.3	36.3	36.9	37.2	37.2	37.3	37.4	37.7	38.1
GE 6000  21.7	32.7	34.6	35.2	35.7	36.2	36.8	36.8	36.8	36.8	37.3	37.7	37.7	37.8	37.9	38.1	38.6
GE 5000  22.7	34.4	36.4	37.1	37.6	38.1	38.7	38.7	38.7	38.7	39.2	39.6	39.6	39.7	39.8	40.0	40.4
GE 4500  24.3	36.3	38.6	39.3	40.0	40.9	41.4	41.4	41.4	41.4	42.0	42.3	42.3	42.4	42.6	42.8	43.2
GE 4000  24.6	36.9	39.1	39.9	40.6	41.4	42.0	42.0	42.0	42.0	42.6	42.9	42.9	43.0	43.1	43.3	43.8
GE 3500  26.1	39.1	41.3	42.1	42.6	43.7	44.2	44.3	44.3	44.3	45.1	45.6	45.6	45.7	45.8	46.0	46.4
GE 3000  29.7	43.8	46.3	47.1	48.0	48.9	49.4	49.6	49.6	49.8	50.3	50.8	50.8	50.9	51.0	51.2	51.7
GE 2500  36.2	53.8	57.0	58.1	59.1	60.2	61.0	61.1	61.3	61.9	62.3	62.3	62.4	62.6	62.8	63.2	
GE 2000  41.7	63.2	66.7	68.4	69.4	70.7	71.4	71.6	71.8	72.3	72.8	72.8	72.9	73.0	73.2	73.7	
GE 1800  43.3	66.4	70.0	72.0	73.0	74.6	75.4	75.6	75.8	76.3	76.8	76.8	76.9	77.0	77.2	77.7	
GE 1500  45.4	70.2	74.0	76.4	77.8	79.4	80.4	80.9	81.1	81.7	82.1	82.1	82.2	82.3	82.6	83.0	
GE 1200  46.6	72.2	76.6	79.0	80.4	82.3	83.3	83.9	84.1	84.7	85.1	85.1	85.3	85.4	85.7	86.1	
GE 1000  46.7	73.0	77.6	80.2	81.8	83.6	84.9	85.6	85.8	86.4	86.9	86.9	87.1	87.2	87.4	87.9	
GE 900  46.8	73.3	78.1	80.8	82.3	84.3	85.4	86.1	86.3	87.1	87.6	87.6	87.8	87.9	88.1	88.6	
GE 800  47.0	74.0	78.8	81.6	83.2	85.2	86.3	87.0	87.2	88.1	88.7	88.8	89.0	89.1	89.3	89.8	
GE 700  47.2	74.4	79.3	82.2	83.9	86.0	87.3	88.3	88.7	89.6	90.1	90.2	90.4	90.5	90.8	91.2	
GE 600  47.4	74.9	79.9	82.9	84.7	86.9	88.2	89.3	89.7	90.6	91.2	91.4	91.7	91.8	92.0	92.4	
GE 500  47.8	75.2	80.6	83.6	85.4	87.7	89.2	90.3	90.8	92.0	92.9	93.2	93.6	93.7	93.9	94.3	
GE 400  47.8	75.2	80.6	83.6	85.6	87.5	89.6	90.9	91.4	92.8	93.9	94.2	94.8	94.9	95.2	95.7	
GE 300  47.8	75.3	80.7	83.8	86.0	88.3	90.1	91.4	92.0	93.6	95.2	96.1	96.3	96.7	97.1		
GE 200  47.8	75.3	80.7	84.0	86.2	88.6	90.9	92.2	92.8	94.3	96.1	96.4	97.0	97.2	97.6	98.0	
GE 100  47.8	75.3	80.7	84.0	86.2	88.6	90.9	92.3	92.9	94.7	96.6	96.9	97.7	98.2	98.8	99.4	
GE 0  47.8	75.3	80.7	84.0	86.2	88.6	90.9	92.3	92.9	94.7	96.6	96.9	97.7	98.2	98.8	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL   17.0	22.6	23.3	24.3	25.1	25.6	26.0	26.2	26.3	26.8	27.0	27.1	27.1	27.1	27.1	27.1	
GE 20000   18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1	
GE 18000   18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1	
GE 16000   18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1	
GE 14000   18.6	24.4	25.3	26.7	27.6	28.2	28.7	28.9	29.2	29.8	30.0	30.1	30.1	30.1	30.1	30.1	
GE 12000   19.2	25.3	26.2	27.6	28.4	29.2	29.7	29.9	30.2	30.8	31.0	31.1	31.1	31.1	31.1	31.1	
GE 10000   20.4	27.0	27.9	29.3	30.2	31.0	31.4	31.7	32.0	32.6	32.8	32.9	32.9	32.9	32.9	32.9	
GE 9000   20.4	27.0	27.9	29.3	30.2	31.0	31.4	31.7	32.0	32.6	32.8	32.9	32.9	32.9	32.9	32.9	
GE 8000   22.9	30.6	31.4	32.9	33.9	34.7	35.2	35.4	35.8	36.3	36.6	36.7	36.7	36.7	36.7	36.7	
GE 7000   23.8	31.9	32.8	34.3	35.3	36.1	36.7	36.9	37.2	37.8	38.0	38.1	38.1	38.1	38.1	38.2	
GE 6000   24.0	32.2	33.2	34.6	35.8	36.6	37.1	37.3	37.7	38.2	38.4	38.6	38.6	38.6	38.6	38.7	
GE 5000   25.0	33.3	34.3	35.9	36.9	37.7	38.2	38.4	38.8	39.3	39.6	39.7	39.7	39.7	39.7	39.8	
GE 4500   26.4	35.6	37.1	38.7	39.9	40.9	41.4	41.9	42.2	42.9	43.1	43.2	43.2	43.2	43.2	43.3	
GE 4000   26.4	35.6	37.1	38.8	40.0	41.0	41.6	42.0	42.3	43.0	43.2	43.3	43.3	43.3	43.3	43.4	
GE 3500   28.9	38.8	40.6	42.2	43.4	44.6	45.1	45.6	45.9	46.6	46.8	46.9	46.9	46.9	46.9	47.0	
GE 3000   32.4	43.3	45.1	46.8	48.2	49.3	49.9	50.6	50.9	51.6	51.9	51.9	51.9	51.9	51.9	52.0	
GE 2500   39.2	53.8	55.8	57.6	59.4	60.8	61.4	62.1	62.4	63.1	63.3	63.4	63.4	63.4	63.4	63.6	
GE 2000   43.9	62.0	64.3	66.6	68.8	70.2	70.9	71.6	71.9	72.7	72.9	73.0	73.0	73.0	73.0	73.1	
GE 1800   45.3	64.2	66.7	68.9	71.3	73.1	73.8	74.4	74.8	75.6	75.8	75.9	75.9	75.9	75.9	76.0	
GE 1500   46.6	67.6	70.2	72.9	75.7	77.6	78.4	79.4	79.8	80.6	80.9	81.0	81.0	81.0	81.0	81.1	
GE 1200   47.4	69.0	71.7	74.3	77.2	79.3	80.3	81.4	81.9	82.7	83.0	83.1	83.2	83.2	83.2	83.3	
GE 1000   48.0	70.3	73.2	76.0	79.0	81.7	82.9	84.2	84.7	85.6	85.9	86.0	86.1	86.1	86.1	86.2	
GE 900   48.1	70.6	73.4	76.2	79.3	82.1	83.3	84.7	85.1	86.0	86.6	86.8	87.0	87.0	87.0	87.1	
GE 800   48.3	71.0	74.1	77.1	80.2	83.0	84.2	85.6	86.0	86.9	87.6	88.1	88.4	88.4	88.4	88.6	
GE 700   48.6	71.4	74.9	77.9	81.1	84.0	85.3	86.7	87.2	88.2	89.1	89.8	90.2	90.2	90.2	90.3	
GE 600   48.7	71.7	75.1	78.3	81.7	84.7	86.0	87.6	88.2	89.2	90.3	91.1	91.6	91.6	91.6	91.7	
GE 500   48.7	71.8	75.2	78.6	82.0	85.1	86.7	88.9	89.7	90.9	92.2	93.3	94.0	94.0	94.0	94.1	
GE 400   48.7	71.9	75.3	78.7	82.8	85.9	87.8	90.7	91.7	93.2	95.0	96.2	96.2	96.2	96.2	96.3	
GE 300   48.7	71.9	75.3	78.7	82.9	86.0	88.0	91.1	92.1	93.9	95.9	97.3	97.7	97.7	97.7	97.7	
GE 200   48.7	71.9	75.3	78.7	82.9	86.0	88.0	91.1	92.1	93.9	95.9	97.3	98.8	99.0	99.0	99.1	
GE 100   48.7	71.9	75.3	78.7	82.9	86.0	88.0	91.1	92.1	93.9	95.9	97.3	98.8	99.0	99.4	99.6	
GE 0   48.7	71.9	75.3	78.7	82.9	86.0	88.0	91.1	92.1	93.9	95.9	97.3	98.8	99.0	99.4	100.0	

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/6	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL   20.8	26.0	27.6	27.9	28.1	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
GE 20000   22.9	29.0	30.6	30.9	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
GE 18000   22.9	29.0	30.6	30.9	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
GE 16000   22.8	29.0	30.6	30.9	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
GE 14000   22.9	29.1	30.7	31.0	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
GE 12000   23.3	29.6	31.2	31.6	31.8	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
GE 10000   25.4	32.2	33.9	34.2	34.4	34.4	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
GE 9000   25.6	32.3	34.0	34.3	34.6	34.6	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
GE 8000   29.0	36.4	38.1	38.4	38.7	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 7000   29.9	37.3	39.0	39.3	39.6	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 6000   29.9	37.3	39.0	39.3	39.6	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 5000   30.8	38.4	40.3	41.0	41.2	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 4500   32.1	40.4	42.7	43.3	43.6	43.6	43.7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
GE 4000   32.1	40.6	42.0	43.4	43.7	43.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 3500   34.0	42.8	45.0	45.7	46.0	46.0	46.1	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
GE 3000   37.8	47.4	49.7	50.4	51.1	51.4	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 2500   44.1	56.8	59.6	60.6	61.2	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 2000   48.6	64.9	68.1	69.1	70.0	70.3	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 18000   50.6	68.3	71.6	72.6	73.6	74.0	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 15000   52.6	72.7	76.2	77.7	79.0	79.4	79.9	80.2	80.4	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 12000   53.0	74.0	77.9	79.6	81.0	81.4	82.3	82.7	82.9	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 10000   54.1	75.7	79.8	81.4	82.9	83.6	84.4	84.8	85.2	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 9000   54.2	76.2	80.8	82.6	84.2	84.9	85.8	86.1	86.6	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 8000   54.6	76.9	81.6	83.3	85.4	86.2	87.2	88.0	88.4	88.9	89.2	89.3	89.6	89.6	89.6	89.6	89.6
GE 7000   54.8	77.2	81.9	83.8	85.9	86.7	87.6	88.7	89.2	89.7	90.1	90.3	90.7	90.7	90.7	90.7	90.7
GE 6000   54.8	77.4	82.2	84.6	86.8	87.7	89.0	90.2	91.0	91.6	92.1	92.4	92.9	92.9	92.9	92.9	92.9
GE 5000   54.8	77.7	82.4	85.1	87.4	88.4	89.0	91.4	92.3	93.7	94.2	94.9	95.3	95.3	95.3	95.3	95.3
GE 4000   54.8	77.7	82.6	85.2	87.7	88.9	90.3	92.3	93.3	94.9	95.9	96.8	97.2	97.4	97.4	97.4	97.4
GE 3000   54.8	77.7	82.6	85.4	87.9	89.1	90.6	92.9	94.0	95.6	96.8	97.8	98.2	98.7	98.8	98.9	98.9
GE 2000   54.8	77.7	82.6	85.4	87.9	89.1	90.6	92.9	94.1	95.8	97.0	98.1	98.8	99.2	99.4	99.6	99.6
GE 1000   54.8	77.7	82.6	85.4	87.9	89.1	90.6	92.9	94.1	95.8	97.0	98.1	99.0	99.4	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	10	6	5	4	3	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	GE	GE	GE	GE
NO CEIL	21.0	26.9	27.0	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
GE 20000	24.2	31.6	31.7	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 18000	24.2	31.6	31.7	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 16000	24.2	31.6	31.7	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 14000	24.3	31.7	31.8	32.1	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
GE 12000	24.9	32.2	32.3	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
GE 10000	26.8	34.3	34.4	34.6	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
GE 9000	27.0	34.7	34.8	35.1	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
GE 8000	30.7	39.0	39.2	39.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
GE 7000	31.8	40.3	40.6	41.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
GE 6000	31.8	40.4	40.7	41.1	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 5000	32.8	41.7	41.9	42.4	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
GE 4500	34.6	43.7	44.1	45.0	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 4000	34.7	44.1	44.6	45.4	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 3500	36.2	46.2	46.7	47.7	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 3000	47.3	51.6	52.2	53.2	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 2500	46.6	59.7	60.8	61.9	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 2000	52.7	69.2	72.9	73.4	73.6	73.6	73.6	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 1800	53.8	71.9	73.1	74.9	76.0	76.1	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
GE 1500	55.1	74.0	76.1	78.2	79.4	79.8	79.9	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 1200	55.4	75.2	77.7	80.2	81.4	81.8	81.9	82.2	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 1000	56.1	76.9	79.7	82.4	84.6	84.9	85.2	85.6	86.0	86.1	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 900	56.1	77.2	80.1	83.1	85.2	85.6	85.9	86.2	86.7	86.9	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 800	56.2	77.4	80.3	83.4	86.0	86.4	86.7	87.3	87.9	88.2	88.4	88.6	88.8	88.8	88.8	88.8	88.8	88.8
GE 700	56.2	77.8	80.8	84.0	86.6	87.2	87.7	88.4	89.0	89.6	89.8	89.9	90.1	90.1	90.1	90.1	90.1	90.1
GE 600	56.2	77.9	81.0	84.7	87.3	88.3	88.9	90.2	90.8	91.4	91.8	92.2	92.6	92.6	92.6	92.6	92.6	92.6
GE 500	56.2	78.1	81.3	85.0	87.7	88.7	89.4	91.2	92.0	93.1	93.6	94.0	94.3	94.3	94.3	94.3	94.3	94.3
GE 400	56.2	78.1	81.4	85.1	88.0	89.2	90.2	92.1	93.2	94.7	95.4	96.1	96.6	96.6	96.6	96.6	96.6	96.6
GE 300	56.2	78.1	81.4	85.1	88.1	89.3	90.7	92.8	94.0	95.7	96.7	97.4	98.1	98.2	98.2	98.2	98.2	98.2
GE 200	56.2	78.1	81.4	85.1	88.1	89.3	90.7	92.8	94.0	95.8	97.0	97.8	98.4	98.8	99.0	99.0	99.0	99.0
GE 100	56.3	78.2	81.6	85.2	88.2	89.4	90.8	92.9	94.1	95.9	97.2	98.0	98.7	99.0	99.2	99.2	99.2	99.2
GE 01	56.3	78.2	81.6	85.2	88.2	89.4	90.8	92.9	94.1	95.9	97.2	98.0	98.7	99.0	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: NOV POLRS(LST): 1800-2000

CEILING	VISIBILITY IN STATUTE MILES																	
	IN	GE FLEET	GE 10	GE 6	GE 5	GF 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 2/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NC CEIL	21.9	27.3	28.0	28.1	28.2	28.3	28.3	28.3	28.3	28.3	28.3	28.6	28.6	28.6	28.7	28.7	28.7	28.7
GE 20000	24.7	31.4	32.2	32.4	32.4	32.6	32.6	32.6	32.6	32.6	32.6	32.8	32.8	32.8	32.9	32.9	32.9	32.9
GE 18000	24.9	31.7	32.4	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.8	33.0	33.0	33.0	33.1	33.1	33.1	33.1
GE 16000	24.9	31.7	32.4	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.8	33.0	33.0	33.0	33.1	33.1	33.1	33.1
GE 14000	24.9	31.7	32.4	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.8	33.0	33.0	33.0	33.1	33.1	33.1	33.1
GE 12000	25.4	32.2	33.0	33.2	33.2	33.3	33.3	33.3	33.3	33.3	33.6	33.6	33.6	33.7	33.7	33.7	33.7	33.7
GE 10000	26.4	33.7	34.4	34.7	34.7	34.8	34.8	34.8	34.8	34.8	34.8	35.0	35.0	35.0	35.1	35.1	35.1	35.1
GE 9000	26.7	34.0	34.8	35.0	35.0	35.1	35.1	35.1	35.1	35.1	35.3	35.3	35.3	35.4	35.4	35.4	35.4	35.4
GE 8000	29.1	36.7	37.4	37.7	37.7	37.8	37.8	37.8	37.8	37.8	38.0	38.0	38.0	38.1	38.1	38.1	38.1	38.1
GE 7000	29.8	37.6	38.3	38.6	38.6	38.7	38.7	38.7	38.7	38.7	38.9	38.9	38.9	39.0	39.0	39.0	39.0	39.0
GE 6000	30.1	37.9	38.7	38.9	38.9	39.0	39.0	39.0	39.0	39.0	39.2	39.2	39.2	39.3	39.3	39.3	39.3	39.3
GE 5000	31.3	39.3	40.1	40.3	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.7	40.7	40.7	40.8	40.8	40.8	40.8
GE 4500	33.3	41.9	42.7	43.3	43.6	43.7	43.7	43.7	43.7	43.7	43.9	43.9	43.9	44.0	44.0	44.0	44.0	44.0
GE 4000	33.7	42.2	43.0	43.7	44.0	44.1	44.1	44.1	44.1	44.1	44.3	44.3	44.3	44.4	44.4	44.4	44.4	44.4
GE 3500	35.2	44.8	45.7	46.6	47.0	47.1	47.1	47.1	47.1	47.1	47.3	47.3	47.3	47.4	47.4	47.4	47.4	47.4
GE 3000	41.4	52.6	53.6	54.9	55.4	55.6	55.6	55.6	55.6	55.6	55.8	55.8	55.8	55.9	55.9	55.9	55.9	55.9
GE 2500	47.6	61.7	63.1	64.6	65.7	66.0	66.0	66.0	66.0	66.0	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3
GE 2000	52.0	67.6	69.6	71.1	72.6	72.9	72.9	73.0	73.0	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3
GE 1800	55.1	71.2	73.2	74.9	76.4	76.8	76.8	76.8	76.8	76.8	77.1	77.1	77.1	77.2	77.2	77.2	77.2	77.2
GE 1500	57.1	74.3	77.4	79.4	81.0	81.3	81.4	81.7	81.7	82.0	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.2
GE 1200	57.7	75.4	78.6	80.7	82.2	82.8	82.9	83.2	83.2	83.6	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8
GE 1000	57.7	75.6	79.1	81.4	83.3	84.1	84.3	84.3	84.3	84.3	85.3	85.4	85.4	85.6	85.6	85.6	85.6	85.6
GE 900	57.7	75.7	79.2	81.6	83.6	84.3	84.7	85.3	85.4	85.4	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1
GE 800	57.8	76.1	79.7	82.1	84.3	85.1	85.6	86.3	86.6	87.0	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3
GE 700	58.1	76.4	80.3	82.8	85.2	86.2	86.8	87.6	87.8	88.4	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8
GE 600	58.1	76.6	80.4	83.3	85.0	87.6	88.2	89.1	89.7	90.3	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8
GE 500	58.1	76.8	80.7	84.1	87.2	89.0	90.1	91.3	92.1	93.3	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0
GE 400	58.1	76.8	80.8	84.4	87.7	89.7	90.4	92.3	93.1	94.8	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.2
GE 300	58.1	76.8	80.9	84.6	87.9	89.9	91.2	92.4	94.1	96.2	97.4	97.6	97.9	97.9	97.9	97.9	97.9	97.9
GE 200	58.1	76.8	80.9	84.6	87.9	89.9	91.2	93.2	94.4	96.8	98.1	98.2	98.6	98.6	98.6	98.6	98.6	98.6
GE 100	58.1	76.8	80.9	84.6	87.9	89.9	91.2	93.2	94.4	97.0	98.6	98.8	99.2	99.2	99.2	99.2	99.2	99.2
GE 0	58.1	76.8	80.9	84.6	87.9	99.9	91.2	93.2	94.4	97.0	98.6	98.8	99.2	99.2	99.2	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	19.9	26.3	26.7	26.8	27.0	27.0	27.0	27.0	27.0	27.2	27.3	27.4	27.4	27.4	27.4	27.6		
GE 20000	20.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.6	29.7	29.7	29.7	29.7	29.8		
GE 18000	20.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.6	29.7	29.7	29.7	29.7	29.8		
GE 16000	20.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.6	29.7	29.7	29.7	29.7	29.8		
GE 14000	20.8	28.6	28.9	29.0	29.2	29.2	29.2	29.2	29.2	29.4	29.6	29.7	29.7	29.7	29.7	29.8		
GE 12000	21.1	29.1	29.4	29.6	29.8	29.8	29.8	29.8	29.8	30.0	30.0	30.1	30.2	30.2	30.2	30.3		
GE 10000	22.7	30.9	31.2	31.3	31.6	31.6	31.6	31.6	31.6	31.8	31.9	32.0	32.0	32.0	32.0	32.1		
GE 9000	22.7	31.0	31.3	31.4	31.7	31.7	31.7	31.7	31.7	31.9	32.0	32.1	32.1	32.1	32.1	32.2		
GE 8000	25.3	34.7	35.0	35.1	35.3	35.3	35.3	35.3	35.3	35.6	35.7	35.8	35.8	35.8	35.8	35.9		
GE 7000	26.0	35.9	36.2	36.3	36.6	36.6	36.6	36.6	36.6	36.8	36.9	37.0	37.0	37.0	37.0	37.1		
GE 6000	26.8	36.7	37.0	37.1	37.3	37.3	37.3	37.3	37.3	37.6	37.7	37.8	37.8	37.8	37.8	37.9		
GE 5000	29.2	39.1	39.4	39.6	39.8	39.8	39.8	39.8	39.8	40.0	40.0	40.1	40.2	40.2	40.2	40.3		
GE 4500	31.8	42.2	42.9	43.1	43.3	43.3	43.3	43.3	43.3	43.7	43.7	43.8	43.9	43.9	43.9	44.0		
GE 4000	32.0	42.6	43.2	43.4	43.7	43.7	43.7	43.7	43.7	44.0	44.0	44.1	44.2	44.2	44.2	44.3		
GE 3500	33.9	45.3	46.0	46.4	46.7	46.7	46.7	46.7	46.7	47.0	47.0	47.1	47.2	47.2	47.2	47.3		
GE 3000	38.1	51.3	52.4	53.0	53.2	53.2	53.2	53.2	53.2	53.7	53.7	53.8	53.9	53.9	53.9	54.1		
GE 2500	45.3	62.2	63.0	64.4	65.0	65.2	65.2	65.3	65.3	65.7	65.7	65.8	65.9	65.9	65.9	66.1		
GE 2000	51.8	71.4	73.0	74.1	75.0	75.4	75.4	75.6	75.6	75.9	75.9	76.0	76.1	76.1	76.1	76.3		
GE 18000	53.9	73.9	76.0	76.5	77.7	76.2	78.2	78.3	78.3	78.7	78.7	79.0	79.1	79.1	79.1	79.3		
GE 15000	56.0	76.7	79.1	80.0	80.9	81.6	81.7	81.8	81.8	82.1	82.3	82.4	82.6	82.6	82.6	82.8		
GE 12000	56.9	78.1	80.6	81.4	82.4	83.2	83.3	83.7	83.7	84.0	84.2	84.3	84.4	84.4	84.4	84.7		
GE 1000	57.0	79.0	81.6	82.6	83.6	84.4	84.8	85.1	85.1	85.4	85.7	85.8	85.9	85.9	85.9	86.1		
GE 900	57.1	79.3	81.9	82.9	83.9	84.8	85.1	85.6	85.6	86.1	86.2	86.3	86.3	86.3	86.6	86.6		
GE 800	57.1	79.6	82.4	83.6	84.6	85.4	85.8	86.4	86.6	86.9	87.1	87.2	87.3	87.3	87.3	87.6		
GE 700	57.1	79.8	83.0	84.3	85.6	86.9	87.4	88.2	88.3	88.7	88.9	89.0	89.1	89.1	89.1	89.3		
GE 600	57.1	79.8	83.0	84.7	86.2	87.6	88.1	89.3	89.4	89.8	90.0	90.2	90.6	90.6	90.6	90.8		
GE 500	57.1	79.8	83.1	85.1	87.2	88.8	89.6	90.9	91.0	91.7	91.9	92.1	92.4	92.4	92.4	92.7		
GE 400	57.1	80.1	83.9	86.1	88.8	90.3	91.4	93.0	93.1	94.0	94.3	94.6	95.2	95.2	95.2	95.4		
GE 300	57.1	80.1	84.0	86.7	89.4	91.0	92.2	94.2	94.3	95.4	95.9	96.1	97.0	97.0	97.0	97.2		
GE 200	57.1	80.1	84.1	86.8	89.6	91.1	92.4	94.7	94.8	96.2	97.0	97.2	98.1	98.1	98.1	98.3		
GE 100	57.1	80.1	84.1	86.8	89.6	91.1	92.6	94.8	94.9	96.3	97.2	97.4	98.6	98.6	98.6	99.0		
GE 0	57.1	80.1	84.1	86.8	89.6	91.1	92.6	94.8	94.9	96.3	97.2	97.4	98.8	99.0	99.0	100.0		

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
HC CEIL	19.6	26.2	27.0	27.3	27.6	27.7	27.9	28.0	28.0	28.1	28.2	28.3	28.3	28.3	28.4	28.5
GE 20000	21.1	28.6	29.5	29.9	30.2	30.4	30.6	30.6	30.6	30.8	30.9	31.0	31.0	31.1	31.1	31.2
GE 18000	21.1	28.7	29.5	29.9	30.2	30.4	30.6	30.6	30.7	30.8	30.9	31.0	31.1	31.1	31.1	31.3
GE 16000	21.1	28.7	29.5	29.9	30.2	30.4	30.6	30.6	30.7	30.8	30.9	31.0	31.1	31.1	31.1	31.3
GE 14000	21.1	28.7	29.6	29.9	30.3	30.4	30.6	30.7	30.7	30.9	31.0	31.0	31.1	31.1	31.2	31.3
GE 12000	21.5	29.2	30.1	30.5	30.8	31.0	31.2	31.2	31.3	31.4	31.5	31.6	31.7	31.7	31.7	31.8
GE 10000	22.9	30.9	31.9	32.3	32.6	32.8	33.0	33.1	33.1	33.3	33.4	33.4	33.5	33.5	33.6	33.7
GE 9000	23.0	31.1	32.1	32.5	32.8	33.0	33.2	33.2	33.3	33.5	33.6	33.6	33.7	33.7	33.8	33.9
GE 8000	25.7	34.6	35.6	36.0	36.4	36.6	36.8	36.8	36.9	37.1	37.2	37.2	37.3	37.3	37.4	37.6
GE 7000	26.6	36.0	36.9	37.4	37.8	38.0	38.2	38.2	38.3	38.5	38.6	38.6	38.7	38.7	38.8	38.9
GE 6000	27.0	36.4	37.4	37.8	38.2	38.4	38.6	38.7	38.7	38.9	39.0	39.1	39.2	39.2	39.2	39.4
GE 5000	28.4	38.1	39.1	39.7	40.1	40.2	40.5	40.5	40.5	40.7	40.8	40.9	41.0	41.0	41.1	41.2
GE 4500	30.3	40.6	41.8	42.5	43.0	43.2	43.5	43.5	43.6	43.8	43.9	44.0	44.1	44.1	44.1	44.3
GE 4000	30.6	41.0	42.3	42.9	43.5	43.7	43.9	44.0	44.1	44.3	44.4	44.4	44.5	44.5	44.6	44.8
GE 3500	32.5	43.7	45.1	45.8	46.3	46.6	46.8	46.9	47.0	47.2	47.3	47.4	47.5	47.5	47.6	47.7
GE 3000	36.6	49.2	50.9	51.7	52.4	52.7	53.1	53.1	53.4	53.5	53.5	53.6	53.6	53.7	53.7	53.9
GE 2500	43.3	59.0	61.1	62.1	63.0	63.4	63.7	63.8	63.9	64.2	64.3	64.3	64.4	64.4	64.5	64.7
GE 2000	48.6	67.3	69.8	71.0	72.2	72.7	72.9	73.1	73.2	73.4	73.6	73.6	73.7	73.7	73.8	74.0
GE 1800	50.5	70.3	72.9	74.2	75.4	76.0	76.3	76.5	76.6	76.8	77.0	77.1	77.2	77.2	77.4	
GE 1500	52.7	74.1	76.9	78.5	79.9	80.6	81.1	81.4	81.5	81.8	82.0	82.0	82.1	82.2	82.2	82.4
GE 1200	53.4	75.5	78.6	80.3	81.7	82.5	83.0	83.4	83.6	83.9	84.1	84.2	84.3	84.3	84.4	84.6
GE 1000	53.9	76.6	79.9	81.0	83.5	84.4	85.1	85.6	85.8	86.2	86.4	86.5	86.6	86.6	86.7	86.9
GE 900	53.9	77.0	80.4	82.3	84.1	85.1	85.7	86.2	86.4	86.9	87.1	87.2	87.4	87.4	87.4	87.7
GE 800	54.1	77.4	81.0	83.1	84.9	86.0	86.7	87.3	87.6	88.0	88.4	88.5	88.7	88.8	88.8	89.0
GE 700	54.3	77.8	81.6	83.7	85.7	86.9	87.7	88.5	88.8	89.3	89.7	89.9	90.1	90.2	90.2	90.4
GE 600	54.3	78.0	81.9	84.3	86.4	87.7	88.6	89.6	90.0	90.6	91.1	91.4	91.7	91.7	91.8	92.0
GE 500	54.4	78.2	82.2	84.8	87.1	88.5	89.7	90.9	91.4	92.3	92.9	93.3	93.7	93.7	93.8	94.0
GE 400	54.4	78.2	82.3	85.1	87.7	89.2	90.5	92.1	92.6	93.6	94.7	95.2	95.6	95.7	95.8	96.0
GE 300	54.4	78.3	82.4	85.3	88.0	89.6	91.1	92.8	93.5	94.8	95.9	96.4	96.9	97.1	97.3	97.5
GE 200	54.4	78.3	82.4	85.3	89.1	89.6	91.4	93.2	93.9	95.4	96.7	97.3	97.9	98.1	98.3	98.7
GE 100	54.4	78.3	82.5	85.3	88.1	89.7	91.4	93.3	94.0	95.5	97.0	97.5	98.3	98.6	99.1	99.6
GE 0	54.4	78.3	82.5	85.3	88.1	89.7	91.4	93.3	94.0	95.5	97.0	97.5	98.4	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS/LST: 0000-0200

CEILING IN FELT	VISIBILITY IN STATUTE MILES																	
	GE 1 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	18.8	23.0	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	
GE 20000	19.5	24.0	24.0	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	
GE 18000	19.6	24.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	
GE 16000	19.6	24.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	
GE 14000	19.7	24.2	24.2	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	
GE 12000	20.6	25.4	25.4	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	
GE 10000	21.2	26.3	26.3	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	
GE 9000	21.2	26.5	26.5	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	
GE 8000	22.5	28.0	28.0	28.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	
GE 7000	22.7	28.2	28.2	28.4	29.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	
GE 6000	23.3	28.9	28.9	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	
GE 5000	24.1	30.2	30.2	30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	
GE 4500	26.1	32.7	32.7	33.0	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	
GE 4000	26.1	32.9	32.9	33.3	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	
GE 3500	27.2	34.7	34.7	34.8	35.4	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	
GE 3000	30.9	40.8	41.3	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	
GE 2500	36.3	49.0	49.9	51.3	52.2	52.3	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	
GE 2000	39.8	58.4	60.1	62.3	63.7	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	
GE 1800	42.0	62.0	64.4	67.1	69.0	69.5	69.6	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	
GE 1500	45.1	67.1	69.9	72.6	75.3	75.8	76.5	77.2	77.3	77.3	77.4	77.4	77.5	77.5	77.5	77.5	77.5	
GE 1200	47.2	71.0	74.1	77.1	80.2	80.8	81.5	82.3	82.4	82.4	82.6	82.6	82.7	82.7	82.7	82.7	82.7	
GE 1000	47.5	72.3	75.5	79.0	82.3	82.8	83.5	84.7	84.9	85.2	85.4	85.4	85.5	85.5	85.5	85.5	85.5	
GE 900	47.6	73.1	76.5	80.0	83.3	83.9	84.7	86.1	86.3	86.6	86.8	86.8	86.9	86.9	86.9	86.9	86.9	
GE 800	47.6	73.7	77.1	80.8	84.6	85.2	86.2	87.6	88.1	88.5	88.7	88.7	88.8	88.8	88.8	88.8	88.8	
GE 700	47.8	74.1	77.6	81.5	85.4	85.9	87.1	88.6	89.0	89.8	90.0	90.0	90.1	90.1	90.1	90.1	90.1	
GE 600	47.8	74.2	77.7	81.7	85.6	86.2	87.8	89.5	90.0	91.0	91.2	91.3	91.4	91.4	91.4	91.4	91.4	
GE 500	47.8	74.5	79.4	82.5	86.9	87.5	89.1	90.8	91.5	92.5	92.9	93.2	93.3	93.3	93.3	93.3	93.3	
GE 400	47.8	74.7	78.6	82.9	87.4	88.3	90.0	91.6	92.8	94.1	94.7	95.1	95.2	95.2	95.2	95.2	95.2	
GE 300	47.8	74.7	78.9	83.0	88.0	86.9	91.3	93.1	94.5	95.8	96.5	96.8	97.0	97.0	97.0	97.0	97.0	
GE 200	47.8	74.7	78.9	83.0	88.0	86.9	91.4	93.5	94.9	96.3	97.1	97.4	98.0	98.1	98.3	98.3	98.3	
GE 100	47.8	74.7	78.9	83.0	88.0	86.9	91.4	93.5	94.9	96.5	97.4	97.7	98.4	98.5	98.7	99.2		
GE 0	47.8	74.7	78.9	83.0	88.0	86.9	91.4	93.5	94.9	96.5	97.4	97.7	98.4	98.5	98.8	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: DEC HOURS(LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL	15.7	20.6	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	21.1	21.1	
GE 20000	16.1	21.2	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.6	21.6	
GE 18000	16.1	21.2	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.6	21.6	
GE 16000	16.1	21.2	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.6	21.6	
GE 14000	16.3	21.4	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.8	21.8	
GE 12000	16.7	21.7	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	22.2	22.2	
GE 10000	17.7	23.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.7	23.7	
GE 9000	17.7	23.2	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.7	23.7	
GE 8000	19.2	25.1	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.5	25.5	
GE 7000	20.0	25.8	26.0	26.0	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.6	26.6	
GE 6000	20.6	26.5	26.7	26.7	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.2	27.2	
GE 5000	21.8	28.0	28.3	28.3	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.8	28.8	
GE 4500	23.4	30.3	30.8	30.9	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.4	31.4	
GE 4000	23.4	30.5	31.1	31.2	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.7	31.7	
GE 3500	25.2	33.2	33.6	33.9	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.4	34.4	
GE 3000	28.1	38.6	39.2	39.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.2	40.2	
GE 2500	32.6	46.6	47.8	48.7	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	50.0	50.0	
GE 2000	37.6	56.3	58.5	60.2	61.6	61.7	62.3	62.6	62.6	62.7	62.7	62.9	62.9	62.9	63.1	63.1		
GE 1800	39.6	59.9	62.5	64.4	65.9	66.0	66.6	67.1	67.1	67.2	67.2	67.4	67.4	67.5	67.7	67.7		
GE 1500	43.7	66.6	69.9	72.6	74.7	75.5	76.3	76.3	76.3	76.7	76.7	76.9	77.1	77.1	77.3	77.3		
GE 1200	45.9	71.2	74.9	76.2	80.6	81.6	82.7	82.8	83.1	83.3	83.3	83.5	83.5	83.5	83.8	83.8		
GE 1000	47.1	74.4	78.3	82.0	84.9	85.3	86.1	87.3	87.4	88.1	88.3	88.3	88.5	88.5	88.7	88.7		
GE 900	47.2	75.4	79.2	83.0	86.1	86.5	87.4	88.6	88.7	89.4	89.6	89.6	89.8	89.8	90.0	90.0		
GE 800	47.2	75.4	79.4	83.4	86.8	87.2	88.2	89.4	89.5	90.2	90.4	90.6	90.6	90.6	90.9	90.9		
GE 700	47.3	75.7	79.7	83.6	87.2	87.6	88.6	89.8	89.9	90.6	91.0	91.0	91.2	91.2	91.4	91.4		
GE 600	47.4	75.8	79.8	84.0	87.4	88.1	89.0	90.2	90.5	91.4	91.7	91.7	91.9	91.9	92.2	92.2		
GE 500	47.4	75.8	79.6	84.1	87.5	88.2	89.4	90.5	90.9	91.8	92.5	92.6	92.8	92.8	93.0	93.2		
GE 400	47.4	76.2	80.2	84.5	88.0	88.7	90.0	91.3	91.6	92.7	93.4	93.5	93.8	93.9	94.1	94.3		
GE 300	47.4	76.3	80.3	84.6	88.1	88.8	90.5	92.2	92.5	93.7	94.5	94.7	94.9	95.1	95.3	95.5		
GE 200	47.4	76.3	80.3	84.7	88.4	89.1	91.6	93.4	93.9	95.2	96.5	96.8	97.5	97.6	98.0	98.2		
GE 100	47.4	76.3	80.3	84.7	88.4	89.1	91.7	93.5	94.0	95.4	96.8	97.1	98.2	98.3	98.9	99.5		
GE 01	47.4	76.3	80.3	84.7	88.4	89.1	91.7	93.5	94.0	95.4	96.8	97.2	98.4	98.5	99.1	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFCATAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	1	GE	GE	GE														
NO CEIL	14.8	18.6	18.8	18.9	19.0	19.0	19.1	19.4	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
GE 20000	15.2	18.9	19.1	19.2	19.4	19.4	19.5	19.7	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
GE 18000	15.3	19.0	19.2	19.4	19.5	19.5	19.6	19.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
GE 16000	15.3	19.0	19.2	19.4	19.5	19.5	19.6	19.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
GE 14000	15.3	19.0	19.2	19.4	19.5	19.5	19.6	19.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
GE 12000	15.9	19.7	19.9	20.0	20.1	20.1	20.2	20.4	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
GE 10000	16.9	21.5	21.7	21.8	21.9	21.9	22.0	22.3	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
GE 9000	16.9	21.5	21.7	21.8	21.9	21.9	22.0	22.3	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
GE 8000	18.0	23.8	24.0	24.1	24.2	24.3	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
GE 7000	19.7	25.5	25.7	25.8	25.9	26.0	26.1	26.3	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
GE 6000	19.7	25.5	25.7	25.8	25.9	26.1	26.2	26.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
GE 5000	21.1	27.5	27.7	27.8	28.0	28.2	28.5	28.7	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
GE 4500	22.6	29.2	29.6	29.7	29.8	30.0	30.3	30.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
GE 4000	22.9	30.1	30.4	30.5	30.6	30.9	31.2	31.5	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
GE 3500	25.1	33.3	33.8	33.9	34.1	34.3	34.6	34.9	35.1	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
GE 3000	27.3	36.2	36.7	37.1	37.5	37.7	38.1	38.4	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 2500	31.9	45.5	46.6	47.1	48.3	48.7	49.1	49.6	49.7	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 2000	36.2	53.1	54.7	55.7	57.6	58.3	58.9	60.2	60.3	60.6	60.9	60.9	60.9	60.9	60.9	60.9	60.9	61.0
GE 18000	38.2	57.4	59.6	60.5	63.0	63.7	64.4	65.8	65.9	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
GE 15000	41.4	63.5	65.7	67.3	70.4	71.1	72.0	73.9	74.2	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.4
GE 12000	42.8	67.1	69.5	71.3	74.8	75.6	76.9	79.0	79.4	80.0	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 10000	43.9	69.2	72.4	74.4	78.7	79.9	81.3	83.7	84.0	85.1	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.8
GE 9000	44.1	69.8	73.5	75.4	79.8	81.0	82.4	84.7	85.1	86.1	86.8	86.8	86.8	86.8	86.8	86.8	86.8	87.0
GE 8000	44.3	70.5	72.9	76.6	81.7	83.2	84.7	87.2	87.5	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.7
GE 7000	44.4	70.8	74.3	77.1	82.2	83.7	85.4	87.8	88.3	89.5	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.6
GE 6000	44.9	70.9	74.5	77.3	82.5	84.2	85.9	88.5	88.9	90.1	90.9	91.0	91.1	91.2	91.3	91.4	91.4	91.4
GE 5000	44.4	71.2	75.1	77.8	83.1	85.2	87.1	89.7	90.2	91.4	92.4	92.5	92.6	92.7	92.8	93.0	93.0	93.0
GE 4000	44.4	71.4	75.4	78.4	83.9	86.0	88.0	90.9	91.4	92.9	93.9	94.1	94.3	94.5	94.7	94.7	94.7	94.7
GE 3000	44.4	71.5	75.5	78.5	84.0	86.5	88.5	91.9	92.5	94.4	95.7	96.0	96.2	96.3	96.6	96.9	96.9	96.9
GE 2000	44.4	71.5	75.6	78.6	84.2	86.7	88.7	92.6	93.2	95.5	97.2	97.5	98.0	98.2	98.4	98.7	98.7	98.7
GE 1000	44.4	71.5	75.6	78.6	84.2	86.7	88.7	92.6	93.3	95.7	97.5	97.8	98.5	98.7	98.9	99.5	99.5	99.5
GE 0	44.4	71.5	75.6	78.6	84.2	86.7	88.7	92.6	93.3	95.7	97.5	97.8	98.6	98.8	99.0	100.0		

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1 0	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 7/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	17.3	20.1	27.3	20.6	20.9	21.7	22.0	22.2	22.3	22.4	22.4	22.4	22.5	22.5	22.5	22.5
GE 20000	18.6	21.7	21.9	22.3	22.7	23.5	23.9	24.0	24.1	24.2	24.2	24.2	24.3	24.3	24.3	24.3
GE 18000	18.7	22.0	22.3	22.6	23.0	23.9	24.2	24.3	24.4	24.5	24.5	24.5	24.6	24.6	24.6	24.6
GE 16000	18.7	22.0	22.3	22.6	23.0	23.9	24.2	24.3	24.4	24.5	24.5	24.5	24.6	24.6	24.6	24.6
GE 14000	18.9	22.3	22.5	22.8	23.2	24.1	24.4	24.5	24.6	24.7	24.7	24.7	24.8	24.8	24.8	24.8
GE 12000	19.0	22.7	22.9	23.2	23.7	24.5	24.8	24.9	25.1	25.2	25.2	25.2	25.3	25.3	25.3	25.3
GE 10000	20.2	24.4	24.7	25.1	25.6	26.5	26.8	26.9	27.0	27.1	27.1	27.1	27.2	27.2	27.2	27.2
GE 9000	20.3	24.7	25.1	25.4	25.9	26.8	27.1	27.2	27.3	27.4	27.4	27.4	27.5	27.5	27.5	27.5
GE 8000	21.8	26.5	27.1	27.4	28.0	28.8	29.1	29.2	29.4	29.5	29.5	29.5	29.6	29.6	29.6	29.6
GE 7000	22.7	27.4	28.2	28.7	29.2	30.1	30.4	30.5	30.6	30.8	30.8	30.8	30.9	30.9	30.9	30.9
GE 6000	23.3	28.1	28.9	29.5	30.0	31.0	31.2	31.3	31.4	31.5	31.5	31.5	31.6	31.6	31.6	31.6
GE 5000	23.9	29.0	29.9	30.4	31.0	31.8	32.2	32.3	32.4	32.5	32.5	32.5	32.6	32.6	32.6	32.6
GE 4500	24.5	30.0	30.4	31.4	32.0	32.9	33.2	33.3	33.4	33.5	33.5	33.5	33.7	33.7	33.7	33.7
GE 4000	24.6	30.5	31.5	32.0	32.7	33.5	33.9	34.0	34.1	34.2	34.2	34.2	34.3	34.3	34.3	34.3
GE 3500	25.9	32.5	33.8	34.3	34.9	35.6	36.1	36.2	36.5	36.6	36.6	36.6	36.7	36.7	36.7	36.7
GE 3000	29.4	38.2	39.6	40.1	40.9	42.2	42.6	42.7	42.9	43.0	43.0	43.1	43.1	43.1	43.1	43.1
GE 2500	32.9	43.4	45.4	46.1	47.5	49.0	49.9	50.4	50.8	51.0	51.0	51.0	51.1	51.1	51.1	51.1
GE 2000	35.8	49.4	52.5	53.6	55.4	57.2	58.5	59.1	59.5	60.0	60.1	60.1	60.2	60.3	60.3	60.3
GE 1800	37.5	52.2	55.6	57.0	58.9	60.8	62.0	62.9	63.2	63.9	64.0	64.0	64.1	64.2	64.2	64.2
GE 1500	40.1	57.0	61.8	63.7	66.1	66.3	69.7	71.0	71.3	72.2	72.5	72.5	72.6	72.7	72.7	72.7
GE 1200	40.5	59.7	64.8	67.1	69.9	72.5	74.1	75.9	76.3	77.4	77.8	77.8	78.0	78.1	78.1	78.1
GE 1000	41.2	61.4	67.2	69.5	72.8	75.5	77.2	79.5	80.0	81.6	82.4	82.4	82.8	82.9	83.1	83.3
GE 900	41.2	61.8	67.6	70.1	73.7	76.5	78.3	80.6	81.2	83.0	84.0	84.0	84.4	84.5	84.7	84.9
GE 800	41.4	62.4	68.4	71.4	75.1	78.1	80.0	82.6	83.3	85.4	86.8	86.9	87.5	87.6	87.8	88.1
GE 700	41.4	62.5	67.5	71.8	75.6	78.7	80.9	83.4	84.3	86.3	88.2	88.3	88.9	89.0	89.2	89.5
GE 600	41.7	62.8	68.8	72.2	75.6	79.6	81.9	84.8	85.7	87.7	88.6	89.8	90.6	90.8	91.0	91.2
GE 500	41.7	63.1	69.1	72.5	77.0	80.3	82.7	85.7	86.7	88.9	91.4	91.5	92.5	92.6	92.9	93.1
GE 400	41.7	63.1	69.1	72.7	77.2	80.6	83.2	86.3	87.5	89.9	92.6	92.7	93.8	94.0	94.3	94.5
GE 300	41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.2	88.4	91.1	94.4	94.6	95.7	96.1	96.5	96.7
GE 200	41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.3	88.5	91.2	94.7	95.2	96.9	97.3	98.1	98.6
GE 100	41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.3	88.5	91.2	94.8	95.4	97.1	98.0	98.9	100.0
GE 0	41.7	63.1	69.1	72.9	77.4	80.9	83.4	87.3	88.5	91.2	94.8	95.4	97.1	98.0	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-66  
MONTH: DEC HOURS(LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1 1/4	GE 0	
NC CEIL	17.2	19.4	20.2	20.5	20.5	20.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	
GE 20000	18.7	21.3	22.5	22.6	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	
GE 18000	18.9	21.7	22.9	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	
GE 16000	18.9	21.7	22.9	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	
GE 14000	19.0	21.8	23.0	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	
GE 12000	19.4	22.9	24.1	24.4	24.4	24.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	
GE 10000	19.5	23.4	24.6	24.9	25.1	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	
GE 9000	19.5	23.7	24.6	25.2	25.3	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	
GE 8000	20.1	24.7	25.5	26.2	26.3	26.3	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	
GE 7000	20.5	25.6	26.6	27.2	27.5	27.5	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	
GE 6000	20.6	25.9	27.3	27.7	28.1	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	
GE 5000	21.2	26.8	28.2	28.6	29.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	
GE 4500	21.5	27.3	28.7	29.2	29.7	29.7	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	
GE 4000	21.6	27.7	29.1	29.7	30.1	30.1	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	
GE 3500	22.5	28.7	30.4	31.0	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	
GE 3000	24.8	32.6	34.4	34.9	35.6	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	
GE 2500	29.7	39.5	41.4	42.6	43.4	43.8	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	
GE 2000	35.1	51.1	53.9	55.5	57.0	57.5	58.9	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	
GE 1800	37.8	55.7	58.6	60.5	62.0	62.8	64.4	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	
GE 1500	40.0	61.1	65.1	67.8	70.0	71.1	73.1	74.5	74.5	74.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	
GE 1200	40.3	63.2	67.5	70.4	73.1	74.8	77.3	78.8	78.8	79.4	79.9	79.9	79.9	79.9	79.9	79.9	79.9	
GE 1000	40.4	65.1	69.7	72.9	75.7	77.5	80.2	81.9	82.0	82.9	83.8	83.8	83.8	83.8	83.8	83.8	83.8	
GE 900	40.4	65.3	70.0	74.1	77.1	78.9	81.7	83.4	83.7	84.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	
GE 800	40.4	65.7	70.4	74.9	78.3	80.1	83.0	84.9	85.3	86.1	87.5	87.5	87.6	87.6	87.6	87.6	87.6	
GE 700	40.4	65.8	70.5	75.4	79.0	80.9	84.0	86.0	86.3	87.5	88.9	88.9	89.2	89.2	89.2	89.2	89.2	
GE 600	40.4	65.9	71.0	76.0	79.7	81.7	84.8	87.0	87.4	88.8	90.3	90.4	90.9	91.0	91.0	91.0	91.0	
GE 500	40.4	66.0	71.1	76.5	80.4	82.6	85.9	88.2	88.6	90.3	91.8	91.9	92.7	92.8	92.9	92.8	92.8	
GE 400	40.4	66.1	71.2	76.7	80.6	82.9	86.6	89.2	89.7	91.9	93.8	93.9	95.2	95.3	95.3	95.3	95.3	
GE 300	40.4	66.1	71.2	76.7	80.6	83.0	86.8	89.9	90.3	92.9	95.2	95.3	96.7	96.9	97.0	97.0	97.0	
GE 200	40.4	66.1	71.2	76.7	80.6	83.0	86.8	90.1	90.6	93.2	95.7	95.9	98.4	98.6	99.2	99.4	99.4	
GE 100	40.4	66.1	71.2	76.7	80.6	83.0	86.8	90.1	90.6	93.2	95.8	96.0	98.5	98.8	99.7	99.9	99.9	
GE 0	40.4	66.1	71.2	76.7	80.6	83.0	86.8	90.1	90.6	93.2	95.8	96.0	98.5	98.8	99.7	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1500-1700

CEILING	VISIBILITY IN STATUTE MILES																	
	IN FEET	10 0	GE 6	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL   17.6	20.8	21.1	21.1	21.1	21.1	21.2	21.4	21.4	21.6	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	
GE 20000  19.8	23.3	24.1	24.1	24.1	24.1	24.2	24.4	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	
GE 18000  19.8	23.3	24.1	24.1	24.1	24.1	24.2	24.4	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	
GE 16000  19.8	23.3	24.1	24.1	24.1	24.1	24.2	24.4	24.4	24.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	
GE 14000  20.2	23.8	24.5	24.5	24.5	24.5	24.6	24.8	24.8	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	
GE 12000  20.8	24.7	25.5	25.5	25.5	25.5	25.6	25.8	25.8	26.0	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	
GE 10000  21.0	24.9	25.7	25.7	25.7	25.7	25.8	26.0	26.0	26.2	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	
GE 9000  21.3	25.3	26.0	26.0	26.0	26.0	26.1	26.3	26.3	26.6	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	
GE 8000  22.2	26.5	27.3	27.4	27.5	27.5	27.6	27.8	27.8	28.1	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	
GE 7000  22.9	27.7	28.6	28.7	28.8	28.8	28.9	29.1	29.1	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	
GE 6000  23.2	28.3	29.1	29.2	29.4	29.4	29.5	29.7	29.7	29.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
GE 5000  24.1	29.5	30.3	30.5	30.6	30.6	30.8	31.0	31.0	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	
GE 4500  25.5	31.4	32.3	32.5	32.6	32.6	32.7	32.9	32.9	33.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	
GE 4000  25.7	31.6	32.5	32.7	32.8	32.8	32.9	33.1	33.1	33.3	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	
GE 3500  26.8	33.5	34.5	34.7	35.1	35.1	35.2	35.4	35.4	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	
GE 3000  28.8	37.5	38.8	39.2	39.6	39.6	39.7	39.9	39.9	40.1	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	
GE 2500  33.9	46.8	48.5	49.8	50.3	50.4	50.6	50.9	50.9	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	
GE 2000  38.5	57.0	59.2	61.2	62.0	62.3	62.8	63.1	63.1	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	
GE 1800  40.2	60.5	63.3	65.4	66.3	66.7	67.2	67.5	67.5	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	
GE 1500  42.0	65.1	68.5	70.9	72.5	73.2	74.1	75.1	75.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	
GE 1200  42.2	66.1	70.1	72.6	74.7	75.6	76.6	77.8	78.2	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8	
GE 1000  42.5	67.8	71.9	74.6	77.3	78.6	79.9	81.5	82.0	83.3	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.9	
GE 900  42.5	68.2	72.3	75.1	78.4	79.8	81.4	82.0	83.5	84.8	85.5	85.5	85.5	85.5	85.5	85.6	85.6	85.6	
GE 800  42.5	68.4	72.9	75.8	79.1	80.8	82.5	84.1	84.9	86.5	87.4	87.4	87.6	87.6	87.7	87.7	87.7	87.7	
GE 700  42.5	68.5	73.0	76.1	79.7	81.5	83.3	85.1	85.9	87.6	89.2	89.5	89.9	90.0	90.1	90.1	90.1	90.1	
GE 600  42.5	68.5	73.2	76.7	80.4	82.3	84.3	86.3	87.3	89.2	91.1	91.3	91.9	92.0	92.2	92.2	92.2	92.2	
GE 500  42.5	68.8	73.7	77.2	81.0	82.8	84.9	87.3	88.5	90.4	92.5	92.7	93.8	94.1	94.2	94.2	94.2	94.2	
GE 400  42.5	68.6	73.7	77.2	81.4	83.4	85.6	88.3	89.6	92.4	94.5	94.7	96.2	96.6	96.8	96.8	96.8	96.8	
GE 300  42.5	68.9	73.8	77.3	81.5	83.5	85.7	88.7	90.0	92.9	95.3	95.5	97.0	97.4	97.7	97.7	97.7	97.7	
GE 200  42.5	68.9	73.6	77.3	81.5	83.5	85.8	88.8	90.1	93.3	96.0	96.2	97.7	98.4	98.8	98.8	98.8	98.8	
GE 100  42.5	68.9	73.6	77.3	81.5	83.5	85.8	88.8	90.1	93.3	96.2	96.5	98.0	98.6	99.6	99.6	99.6	99.6	
GE 0  42.5	68.9	73.8	77.3	81.5	83.5	85.8	88.8	90.1	93.3	96.2	96.5	98.0	98.8	99.6	100.0			

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GL 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0		
NC CEIL   1P.8	23.5	23.7	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	
GE 20000   20.8	25.7	26.2	26.6	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	
GE 18000   20.9	25.8	26.3	26.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	
GE 16000   20.8	25.8	26.3	26.7	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	
GE 14000   20.9	25.9	26.5	26.8	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
GE 12000   21.4	26.8	27.3	27.6	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	
GE 10000   22.3	27.7	28.3	28.6	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
GE 9000   22.3	27.8	28.4	28.7	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	
GE 8000   23.7	29.7	30.3	30.6	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	
GE 7000   24.6	30.9	31.5	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	
GE 6000   24.9	31.2	31.8	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	
GE 5000   25.1	31.5	32.2	32.5	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	
GE 4500   25.3	33.2	34.3	34.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	
GE 4000   25.5	33.5	34.8	35.4	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	
GE 3500   27.5	36.1	37.5	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	
GE 3000   31.1	41.3	42.6	43.4	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	
GE 2500   35.5	49.0	51.2	52.3	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	
GE 2000   39.9	58.4	61.5	63.1	65.8	66.2	66.8	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
GE 1800   41.3	61.8	65.4	67.2	69.9	70.4	71.2	71.6	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
GE 1500   43.5	66.1	70.1	72.4	75.6	76.2	77.2	77.8	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	
GE 1200   44.2	57.4	71.6	74.2	77.4	78.4	79.6	80.5	80.8	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	
GE 1000   44.4	67.8	72.6	75.1	79.1	80.3	81.5	82.9	83.2	84.1	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5	
GE 900   44.5	68.1	72.9	75.6	79.8	81.0	82.3	83.7	84.0	84.8	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	
GE 800   44.5	68.4	72.3	76.0	80.5	81.8	83.4	84.8	85.4	86.6	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	
GE 700   44.6	68.6	73.8	76.8	81.3	82.6	84.2	85.6	86.1	87.4	88.2	88.3	88.4	88.4	88.4	88.4	88.4	88.4	
GE 600   44.6	68.9	74.1	77.3	81.9	83.3	85.3	86.4	87.4	88.9	89.8	89.9	90.0	90.1	90.1	90.1	90.1	90.1	
GE 500   44.7	69.1	74.7	78.0	82.8	84.2	86.6	88.3	89.0	90.9	91.7	91.8	92.4	92.5	92.5	92.5	92.5	92.5	
GE 400   44.7	69.1	74.8	78.1	83.1	84.5	87.1	89.1	90.4	92.3	93.5	93.7	94.3	94.4	94.4	94.4	94.4	94.4	
GE 300   44.7	69.1	74.8	78.1	83.2	84.6	87.4	89.6	90.9	93.2	95.1	95.2	96.2	96.5	96.5	96.5	96.5	96.5	
GE 200   44.7	69.1	74.9	78.2	83.3	84.9	87.8	90.3	91.6	94.3	96.9	97.0	98.3	98.6	98.6	98.6	98.6	98.6	
GE 100   44.7	69.1	74.9	78.2	83.3	84.9	87.8	90.3	91.6	94.4	97.1	97.2	98.5	98.8	99.2	99.2	100.0	100.0	
GE 0   44.7	69.1	74.9	78.2	83.3	84.9	87.8	90.3	91.6	94.4	97.1	97.2	98.5	98.8	99.2	99.2	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86

MONTH: DEC HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NC CEIL   18.1	22.3	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	
GE 20000  19.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	
GE 18000  19.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	
GE 16000  19.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	
GE 14000  19.2	24.2	24.4	24.4	24.4	24.4	24.4	24.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	
GE 12000  19.8	25.1	25.3	25.3	25.3	25.3	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	
GE 10000  21.3	26.8	27.0	27.0	27.0	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	
GE 9000  21.3	27.1	27.3	27.3	27.3	27.4	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	
GE 8000  21.7	28.2	28.8	28.8	28.8	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	
GE 7000  22.0	28.7	29.4	29.4	29.4	29.5	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	
GE 6000  22.7	29.4	30.0	30.0	30.0	30.1	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	
GE 5000  23.1	30.0	30.8	30.8	30.8	30.9	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	
GE 4500  24.0	31.7	32.6	32.6	32.6	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	
GE 4000  24.2	32.3	33.1	33.2	33.2	33.3	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	
GE 3500  25.9	34.5	35.4	35.5	35.5	35.6	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	
GE 3000  28.9	39.9	41.0	41.8	41.9	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	
GE 2500  33.2	49.8	51.0	52.2	52.5	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	
GE 2000  37.7	60.0	61.9	64.1	65.2	65.4	66.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	
GE 1800  39.8	63.8	66.1	68.5	69.7	70.0	70.9	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	
GE 1500  42.0	67.5	72.6	73.1	74.3	74.8	76.2	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	
GE 1200  42.3	69.1	72.7	75.3	77.0	77.7	79.2	80.3	80.3	80.6	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	
GE 1000  43.1	72.0	75.8	78.5	81.1	81.6	83.8	84.8	84.8	85.5	85.6	85.8	85.9	85.9	85.9	85.9	85.9	85.9	
GE 900  43.4	72.7	76.5	79.1	81.7	82.5	84.6	85.8	85.9	86.6	86.7	86.9	87.0	87.0	87.0	87.0	87.0	87.0	
GE 800  43.4	73.2	77.3	80.2	82.9	83.7	85.8	87.3	87.5	88.2	88.3	88.5	88.6	88.6	88.6	88.6	88.6	88.6	
GE 700  43.4	73.3	77.6	80.6	83.7	84.4	86.6	86.3	86.7	89.4	89.5	89.8	89.9	89.9	89.9	89.9	89.9	89.9	
GE 600  43.4	73.5	78.2	81.3	84.2	84.9	87.3	89.1	89.7	90.5	90.9	91.3	91.4	91.4	91.4	91.4	91.4	91.4	
GE 500  43.4	73.8	78.5	81.7	84.9	85.9	88.4	90.6	91.3	92.7	93.2	93.7	93.8	93.8	93.8	93.8	93.8	93.8	
GE 400  43.4	73.9	78.8	82.2	85.8	86.8	89.2	91.5	92.3	94.3	94.8	95.3	95.4	95.4	95.4	95.4	95.4	95.4	
GE 300  43.4	73.9	79.0	82.4	86.1	87.2	89.8	92.0	92.8	95.3	96.0	96.5	96.6	96.6	96.6	96.6	96.6	96.6	
GE 200  43.4	73.9	79.0	82.4	86.3	87.4	90.1	92.6	93.3	96.0	97.0	97.5	98.2	98.4	98.5	98.5	98.5	98.5	
GE 100  43.4	73.9	79.0	82.4	86.3	87.4	90.1	92.6	93.3	96.0	97.3	97.6	98.5	98.7	98.8	99.6	99.6	99.6	
GE 0  43.4	73.9	79.0	82.4	86.3	87.4	90.1	92.6	93.3	96.0	97.3	97.8	98.5	98.7	98.8	98.8	98.8	98.8	

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
JSAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726393 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): ALL

CEILING		VISIBILITY IN STATUTE MILES																	
IN	FT	GL	GE	GE	GE	GE	GE	CE	GE	GE	GE	GE	GE	GE	GL	GE	GE	GE	GE
		1	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	7/4	5/8	1/2	5/16	1/4	1/4	0
NG	CEIL	1	17.2	21.0	21.3	21.4	21.5	21.6	21.6	21.7	21.7	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
GE	200001	18.5	22.5	22.9	23.1	23.2	23.3	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.6
GE	180001	18.5	22.7	23.1	23.2	23.3	23.4	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.7
GE	160001	18.5	22.7	23.1	23.2	23.3	23.4	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.7
GE	140001	18.7	22.8	22.2	23.4	23.5	23.6	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.9
GE	120001	19.2	23.6	24.0	24.2	24.3	24.4	24.5	24.5	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.7
GE	100001	20.0	24.8	25.2	25.4	25.5	25.6	25.7	25.8	25.8	25.8	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
GE	90001	20.1	25.0	25.4	25.6	25.7	25.8	25.9	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.1	26.1
GE	80001	21.1	26.5	27.1	27.3	27.4	27.5	27.6	27.7	27.7	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
GE	70001	21.9	27.5	28.0	28.3	28.5	28.6	28.7	28.8	28.8	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
GE	60001	22.3	29.0	28.6	28.6	29.0	29.1	29.2	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
GE	50001	23.0	29.1	29.7	29.7	30.1	30.3	30.4	30.5	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
GE	45001	24.1	30.7	31.5	31.8	32.0	32.2	32.3	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
GE	40001	24.3	31.2	31.9	32.3	32.5	32.7	32.8	32.9	32.9	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
GE	35001	25.8	33.3	34.2	34.6	35.0	35.1	35.2	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.5
GE	30001	28.7	38.1	39.2	39.8	40.3	40.5	40.7	40.8	40.8	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
GE	25001	33.3	46.2	47.7	48.8	49.7	50.0	50.3	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.7
GE	20001	37.6	55.5	57.8	59.5	61.1	61.6	62.3	62.8	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.3
GE	18001	39.6	59.2	61.9	63.8	65.6	66.2	67.0	67.6	67.7	68.0	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2
GE	15001	42.2	64.2	67.7	70.0	72.4	73.2	74.3	75.4	75.5	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.3
GE	12001	43.2	66.9	70.7	73.3	76.0	77.0	78.3	79.7	79.9	80.4	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.9
GE	10001	43.8	68.8	72.9	75.4	79.0	80.2	81.7	83.3	83.6	84.5	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.2
GE	9001	43.9	69.3	73.5	76.5	80.0	81.2	82.8	84.5	84.8	85.7	86.3	86.4	86.4	86.5	86.5	86.5	86.5	86.5
GE	8001	43.9	69.7	74.1	77.4	81.1	81.5	84.2	86.0	86.4	87.5	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.6
GE	7001	44.0	69.9	74.4	77.9	81.7	83.2	85.0	86.8	87.3	88.5	89.4	89.5	89.7	89.7	89.7	89.7	89.8	89.9
GE	6001	44.0	70.1	74.7	78.3	82.3	83.8	85.8	87.8	88.4	89.7	90.7	91.2	91.2	91.2	91.2	91.2	91.2	91.3
GE	5001	44.1	70.3	75.0	78.8	83.0	84.6	86.8	88.9	89.6	91.1	92.3	92.5	93.0	93.1	93.2	93.2	93.2	93.2
GE	4001	44.1	70.4	75.3	79.1	83.4	85.2	87.5	89.8	90.7	92.6	93.9	94.1	94.8	94.9	95.0	95.1	95.1	95.1
GE	3001	44.1	70.5	75.3	79.2	83.6	85.4	87.9	90.6	91.5	93.7	95.3	95.6	96.3	96.5	96.7	96.7	96.7	96.7
GE	2001	44.1	70.5	75.4	79.2	83.7	85.6	88.2	91.1	92.0	94.4	96.4	96.7	97.9	98.1	98.5	98.6	98.6	98.6
GE	1001	44.1	70.5	75.4	79.2	83.7	85.6	88.2	91.1	92.1	94.5	96.6	96.9	98.2	98.6	99.1	99.1	99.1	99.2
GE	01	44.1	70.5	75.4	79.2	83.7	85.6	88.2	91.1	92.1	94.5	96.6	97.0	98.2	98.6	99.2	100.0		

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	1/2	2	1 1/2	1 1/4	1	3/4	5/6	1/2	5/16	1/4	0	
NC CEIL	32.4	40.1	41.3	42.1	42.6	42.9	43.2	43.3	43.3	43.5	43.5	43.5	43.5	43.6	43.6	43.7	43.7	
GE 20000	34.7	43.4	44.7	45.7	46.5	46.7	46.9	47.1	47.1	47.3	47.3	47.3	47.3	47.4	47.4	47.5	47.5	
GE 18000	34.8	43.5	44.8	45.8	46.6	46.8	47.0	47.2	47.2	47.4	47.4	47.4	47.4	47.5	47.5	47.6	47.7	
GE 16000	34.8	43.5	44.8	45.8	46.6	46.8	47.0	47.2	47.2	47.4	47.4	47.4	47.4	47.5	47.5	47.6	47.7	
GE 14000	34.9	43.6	45.0	46.0	46.7	46.9	47.2	47.3	47.4	47.5	47.6	47.6	47.7	47.7	47.8	47.8	47.8	
GE 12000	35.4	44.4	45.8	46.8	47.5	47.7	48.0	48.2	48.2	48.3	48.4	48.4	48.5	48.5	48.6	48.6	48.6	
GE 10000	36.5	45.8	47.3	48.4	49.2	49.4	49.7	49.8	49.9	50.0	50.1	50.1	50.2	50.2	50.3	50.3	50.3	
GE 9000	36.6	46.1	47.6	48.6	49.4	49.6	49.9	50.1	50.1	50.3	50.4	50.4	50.5	50.5	50.6			
GE 8000	38.1	49.2	49.8	51.0	51.8	52.1	52.4	52.6	52.6	52.8	52.8	52.8	52.9	52.9	53.0	53.1		
GE 7000	38.9	49.3	51.0	52.1	53.0	53.3	53.6	53.8	53.9	54.0	54.1	54.1	54.2	54.2	54.3	54.3		
GE 6000	39.3	49.9	51.6	52.8	53.7	54.0	54.3	54.5	54.5	54.7	54.8	54.8	54.9	54.9	54.9	55.0		
GE 5000	40.3	51.4	53.1	54.4	55.4	55.7	56.0	56.2	56.3	56.4	56.5	56.5	56.6	56.6	56.7	56.7		
GE 4500	41.8	53.6	55.5	56.9	57.9	58.3	58.6	58.9	59.1	59.2	59.3	59.3	59.4	59.4				
GE 4000	42.2	54.3	56.2	57.6	58.7	59.1	59.5	59.7	59.8	59.9	60.1	60.1	60.2	60.2	60.3			
GE 3500	43.7	56.4	58.4	59.9	61.1	61.5	61.9	62.2	62.2	62.4	62.5	62.5	62.6	62.6	62.7	62.7		
GE 3000	45.7	59.4	61.7	63.3	64.6	65.0	65.4	65.7	65.8	66.0	66.1	66.1	66.2	66.2	66.3	66.3		
GE 2500	48.7	64.5	67.0	69.0	70.4	70.9	71.5	71.8	71.9	72.1	72.2	72.2	72.3	72.3	72.4	72.5		
GE 2000	51.3	69.1	72.0	74.2	76.0	76.6	77.3	77.8	77.9	78.1	78.3	78.4	78.5	78.6				
GE 1800	52.3	70.9	73.9	76.3	78.2	78.8	79.6	80.1	80.2	80.5	80.7	80.7	80.8	80.9	81.0			
GE 1500	54.7	73.5	76.9	79.5	81.6	82.4	83.3	84.0	84.1	84.5	84.7	84.7	84.8	84.8	84.9	85.0		
GE 1200	54.3	74.8	76.4	81.2	83.5	84.3	85.4	86.1	86.2	86.7	86.9	87.1	87.1	87.2	87.3			
GE 1000	54.7	75.9	79.7	82.7	85.2	86.2	87.4	88.2	88.4	88.9	89.3	89.3	89.4	89.5	89.5	89.6		
GE 900	54.8	76.3	80.2	83.2	85.8	86.8	88.0	88.9	89.1	89.7	90.0	90.1	90.2	90.3	90.3	90.4		
GE 800	54.9	76.7	80.6	83.6	86.5	87.6	89.0	89.9	90.1	90.7	91.2	91.2	91.4	91.4	91.5	91.6		
GE 700	55.0	76.9	81.0	84.3	87.1	88.3	89.7	90.8	91.0	91.7	92.2	92.2	92.4	92.4	92.5	92.6		
GE 600	55.0	77.0	81.2	84.6	87.6	88.9	90.4	91.6	91.9	92.6	93.1	93.2	93.4	93.5	93.6	93.6		
GE 500	55.0	77.2	81.5	85.0	88.1	89.5	91.2	92.5	92.9	93.7	94.4	94.5	94.8	94.8	94.9	95.0		
GE 400	55.1	77.3	81.6	85.3	88.6	90.0	92.0	93.6	93.9	95.0	95.8	95.9	96.3	96.4	96.5	96.6		
GE 300	55.1	77.3	81.7	85.4	88.8	90.3	92.4	94.1	94.6	95.8	96.7	96.9	97.3	97.4	97.6	97.7		
GE 200	55.1	77.3	81.7	85.4	88.8	90.4	92.5	94.4	94.9	96.3	97.4	97.6	98.1	98.3	98.5	98.7		
GE 100	55.1	77.3	81.7	85.4	88.9	90.4	92.6	94.5	95.0	96.4	97.6	97.8	98.5	98.7	99.1	99.6		
GE 0	55.1	77.3	81.7	85.4	88.9	90.4	92.6	94.5	95.0	96.4	97.6	97.8	98.5	98.8	99.2	100.0		

TOTAL NUMBER OF OBSERVATIONS: 87643

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN

..... PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

FOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	13.8				11.9					10.3	64.0	7.7	930
03-05	12.2				11.0					11.8	65.0	7.9	927
06-08	9.4				11.6					11.7	67.3	8.1	930
09-11	8.1				13.6					14.2	64.1	8.1	927
12-14	5.9				14.4					19.9	59.8	8.2	926
15-17	6.2				16.0					16.3	59.4	8.1	929
18-20	9.5				12.8					12.6	65.0	8.0	927
21-23	10.8				13.1					10.5	65.7	7.9	927
TOTALS	9.5				13.1					13.7	63.8	8.0	7423

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB

..... PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

FOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	16.6				16.8					12.9	57.7	7.3	844
03-05	19.0				9.6					10.3	62.0	7.4	839
06-08	10.2				13.3					15.8	60.7	7.9	842
09-11	9.7				14.5					17.2	58.6	7.6	844
12-14	7.9				16.4					19.7	56.0	7.9	844
15-17	9.6				16.8					16.1	57.6	7.7	846
18-20	14.9				14.7					15.0	55.4	7.3	846
21-23	19.2				13.0					9.6	58.2	7.1	845
TOTALS	13.5				13.7					14.6	58.3	7.6	6750

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR

.....  
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	29.1									7.4	54.3	6.4	927
03-05	26.6				11.7					9.6	52.0	6.4	928
06-08	19.5				14.8					12.3	53.4	6.9	928
09-11	16.1				16.3					13.1	54.5	7.1	929
12-14	14.6				16.1					17.0	52.3	7.2	930
15-17	15.6				15.4					17.6	51.2	7.2	930
18-20	18.4				16.2					14.3	51.1	6.9	930
21-23	25.4				12.4					10.9	51.3	6.5	929
TOTALS	20.7				14.6					12.8	52.5	6.8	7431

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR

.....  
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	30.7			11.7						8.9	48.7	6.0	898
03-05	31.1			13.3						8.0	47.6	5.9	897
06-08	29.6			15.8						15.5	48.2	6.7	895
09-11	19.3			16.6						13.6	50.6	6.8	898
12-14	15.8			14.8						18.5	50.9	7.2	899
15-17	16.1			16.9						18.2	54.8	7.4	898
18-20	18.0			13.9						13.9	54.3	7.1	895
21-23	25.1			14.9						9.7	50.3	6.3	897
TOTALS	22.1			14.6						13.3	50.7	6.7	7177

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										TOTAL OBS		
	0	1	2	3	4	5	6	7	8	9			
00-02	32.0			17.4						11.0	39.5	5.5	924
03-05	28.5			16.1						12.9	40.5	5.8	925
06-08	19.3			16.6						20.0	44.2	6.7	924
09-11	15.8			22.6						19.1	42.5	6.6	930
12-14	13.1			21.5						21.3	44.1	7.0	930
15-17	12.3			21.2						24.5	42.0	7.0	930
18-20	16.6			20.5						21.3	41.4	6.7	928
21-23	26.4			16.5						16.4	48.7	5.9	929
TOTALS	20.5			19.6						18.1	41.9	6.4	7420

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										TOTAL OBS		
	0	1	2	3	4	5	6	7	8	9			
00-02	34.1			20.3						11.4	34.2	5.1	897
03-05	24.7			22.6						16.4	36.3	5.8	890
06-08	19.5			22.1						18.9	39.5	6.3	896
09-11	16.1			23.7						23.7	36.6	6.5	900
12-14	11.0			24.4						29.3	35.2	6.9	900
15-17	13.3			27.3						24.7	34.7	6.5	900
18-20	18.2			23.1						26.6	32.1	6.3	900
21-23	24.7			27.6						16.8	31.0	5.4	900
TOTALS	20.2			23.9						21.0	35.0	6.1	7103

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										TOTAL OBS		
	0	1	2	3	4	5	6	7	8	9			
00-02	39.9			18.5						12.6	29.0	4.6	923
03-05	31.8			22.7						14.9	30.6	5.1	919
06-08	19.8			22.4						23.3	34.5	6.2	919
09-11	16.1			27.2						21.2	35.4	6.3	923
12-14	9.2			35.8						21.7	33.4	6.4	928
15-17	12.3			31.6						26.7	29.2	6.3	930
18-20	19.1			23.4						26.5	31.0	6.2	930
21-23	27.1			25.9						16.9	30.1	5.3	927
TOTALS	21.9			26.0						20.5	31.7	5.8	7399

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG

HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										TOTAL OBS		
	0	1	2	3	4	5	6	7	8	9			
00-02	38.6			17.2						10.1	34.1	4.8	914
03-05	32.6			17.9						13.9	35.6	5.3	915
06-08	17.4			22.7						20.3	39.7	6.5	918
09-11	17.6			21.5						24.1	36.8	6.5	930
12-14	7.4			30.9						25.4	36.3	6.8	930
15-17	10.8			29.7						23.7	35.8	6.6	929
18-20	19.4			23.9						23.0	33.7	6.2	928
21-23	31.0			23.0						14.4	31.7	5.1	919
TOTALS	21.9			23.4						19.4	35.5	6.0	7383

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												MEAN	TOTAL OBS
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	39.1			16.5						9.7	43.6	5.7	889
03-05	31.5			13.9						8.9	45.7	5.8	889
06-08	15.6			16.8						16.8	50.6	7.1	893
09-11	11.6			20.7						17.1	50.6	7.2	898
12-14	8.2			23.7						20.9	47.2	7.3	899
15-17	8.3			22.1						22.7	46.9	7.4	900
18-20	15.6			19.5						22.5	42.4	6.9	898
21-23	26.1			20.2						10.0	43.7	5.9	894
TOTALS	18.4			19.2						16.1	46.3	6.7	7160

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												MEAN	TOTAL OBS
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	27.6			11.9						9.8	50.8	6.3	910
03-05	26.3			13.0						12.0	48.6	6.3	905
06-08	14.1			16.9						18.4	50.7	7.2	918
09-11	11.0			15.6						20.9	52.5	7.6	922
12-14	9.0			17.4						22.7	50.8	7.6	929
15-17	10.1			17.6						22.0	50.3	7.5	928
18-20	16.0			17.7						15.2	51.1	7.0	927
21-23	22.6			15.8						10.9	50.5	6.5	920
TOTALS	17.1			15.7						16.5	50.7	7.0	7359

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											TOTAL OBS		
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10		
00-02	15.6			6.9						10.3	65.1	7.7	889
03-05	16.9			10.0						7.5	65.6	7.5	892
06-08	11.4			13.4						9.5	65.7	7.8	896
09-11	7.7			12.0						15.9	64.4	8.2	899
12-14	8.4			12.2						18.3	61.1	8.1	895
15-17	9.1			12.3						13.0	64.7	8.1	899
18-20	11.6			11.6						12.7	64.0	7.9	895
21-23	12.3			9.5						10.5	67.7	8.0	894
TOTALS	11.6			11.2						12.3	64.8	7.9	7159

STATION NUMBER: 72639U STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: DEC

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											TOTAL OBS		
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10		
00-02	9.4			9.5						10.7	70.5	8.3	929
03-05	10.0			6.2						8.1	73.7	8.3	923
06-08	6.8			9.6						9.1	74.3	8.5	927
09-11	5.5			11.8						11.9	70.8	8.5	925
12-14	2.6			12.2						16.0	69.2	8.7	929
15-17	3.1			14.3						15.8	66.8	8.5	925
18-20	8.8			12.6						12.5	66.1	8.1	930
21-23	9.8			9.7						11.2	69.3	8.2	929
TOTALS	7.0			11.0						11.9	70.1	8.4	7417

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87  
MONTH: ALL

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												
HOURS (LST)	0	1	2	3	4	5	6	7	8	MEAN	TOTAL OBS	
JAN ALL	9.5			13.1					13.7	63.8	6.0	7623
FEB	13.5		13.7						14.6	58.3	7.6	6750
MAR	20.7		14.0						12.8	52.5	6.8	7431
APR	22.1		14.0						13.3	50.7	6.7	7177
MAY	20.5		19.6						18.1	41.9	6.4	7420
JUN	20.2		23.9						21.0	35.0	6.1	7163
JUL	21.9		26.0						20.5	31.7	5.8	7399
AUG	21.9		23.4						19.4	35.5	6.0	7383
SEP	18.4		19.2						16.1	46.3	6.7	7160
OCT	17.1		15.7						16.5	50.7	7.0	7359
NOV	11.6		11.2						12.3	64.8	7.9	7159
DEC	7.0		11.0						11.9	70.1	8.4	7417
TOTALS	17.0		17.1						15.9	50.1	7.0	87261

PPPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTTT	EEEEEEEEE
PPPPPPPPY	AAAAAAA	RRRRRRRR	TTTTTTTT	EEEEEEEEE
PP	AA	RR	TT	EE
PP	AA	RR	TT	EE
PPPPPPPPP	AA	RRRRRRRR	TT	EEEEEE
PPPPPPPPP	AAAAAA	RRRRRRRR	TT	EEEEEE
PP	AAAAAA	RR	TT	EE
PP	AA	RR	TT	EE
PP	AA	RR	TT	EEEEEEEEE
PP	AA	RR	TT	EEEEEEEEE

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY MAXIMUM (MINIMUM AND MEAN) TEMPERATURES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PERCENTAGE TABULATIONS PRESENTED BY 5-DEGREE FAHRENHEIT INCREMENTS PLUS THE MEAN, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNT.

THE MINIMUM TABLE ALSO INCLUDES A 13 FAHRENHEIT DEGREE INCREMENT.

SINCE MANY STATIONS/SITES DO NOT HAVE MAXIMUM/MINIMUM THERMOMETERS, THESE TEMPERATURES WERE SELECTED BY SCANNING THE HOURLY OBSERVATIONS FOR THE HIGHEST AND LOWEST VALUES.

STATISTICS DO NOT INCLUDE INCOMPLETE MONTHS (THOSE CONTAINING ASTERISKS).

FOUR OR MORE COMPLETE MONTHS ARE REQUIRED FOR COMPUTATION AND DISPLAY OF STATISTICAL VALUES.

EXTREME MAXIMUM AND MINIMUM VALUES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PRESNTED ARE THE HIGHEST (LOWEST) TEMPERATURE FOR THE MONTH FOR EACH YEAR.

ALSO PRESENTED ARE STATISTICAL VALUES WITH THE SAME LIMITATIONS MENTIONED ABOVE.

AN ASTERISK INDICATES AN INCOMPLETE MONTH.

MEANS AND STANDARD DEVIATIONS FOR DRY BULB (WET BULB AND DEW POINT) TEMPERATURES

DATA DERIVED FROM HOURLY OBSERVATIONS.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESNTED ARE MEANS, STANDARD DEVIATION AND OBSERVATION COUNTS.

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PERCENTAGE VALUES PRESENTED IN 10 DEGREE INCREMENTS OF RELATIVE HUMIDITY.

ALSO PRESENTED ARE THE MEAN VALUES AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MAXIMUM TEMPERATURES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390

STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 100													.0
GE 95													.2
GE 90													1.5
GE 85													5.4
GE 80													12.1
GE 75													20.0
GE 70													27.6
GE 65													35.1
GE 60													42.2
GE 55													48.6
GE 50													54.9
GE 45													60.5
GE 40													67.0
GE 35													75.7
GE 30													84.4
GE 25													89.6
GE 20													95.4
GE 15													97.8
GE 10													99.8
GE 5													100.0
GE -5													100.0
MEAN	25.8	28.3	37.6	51.4	64.3	73.9	79.5	76.5	68.2	56.9	42.8	31.0	53.0
SD	9.443	10.049	10.401	11.945	11.381	9.286	7.272	7.466	9.491	10.376	9.919	8.833	21.147
TOTAL OBS	868	791	668	840	837	810	837	837	840	868	840	868	10104

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MINIMUM TEMPERATURES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390

STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 70						.4	.8	.2	.2				.1
GE 65						.2	1.5	6.5	3.9	2.6			1.2
GE 60						.2	1.2	7.7	21.7	18.6	7.3		4.7
GE 55						.1	.5	4.3	20.0	46.0	42.5	17.4	3.1
GE 50						2.0	12.2	42.2	70.7	64.2	35.2	9.2	.5
GE 45						4.3	26.8	63.2	88.6	82.2	53.9	19.8	3.1
GE 40						1.4	12.6	47.2	84.2	57.8	73.0	34.6	8.8
GE 35						.2	5.2	28.6	67.1	95.9	99.5	87.3	56.0
GE 30						1.4	2.7	8.9	37.7	75.6	97.5	100.0	99.6
GE 25						3.5	5.8	17.2	51.4	87.0	99.3	100.0	96.9
GE 20						11.3	14.4	36.8	76.8	98.1	100.0	100.0	94.2
GE 15						22.4	24.9	49.5	90.6	100.0			98.8
GE 10						33.3	34.4	63.4	96.7			100.0	93.1
GE 5						48.3	46.4	74.4	98.9				44.2
GE 0						63.4	60.9	85.1	99.4				76.0
GE -5						75.0	73.7	91.1	100.0				81.7
GE -10						83.8	84.3	95.3				100.0	95.4
GE -15						91.4	91.2	97.5					96.6
GE -20						96.2	96.2	99.1					98.2
GE -25						99.4	98.5	99.7					99.3
GE -30						99.9	99.7	99.8					100.0
GE -35						100.0	100.0						99.8
GE -40						100.0							99.9
MEAN						8.4	8.5	17.8	30.1	39.2	47.7	53.6	52.2
SD						12.774	13.608	12.482	8.566	8.436	7.958	7.171	7.580
TOTAL OBS						868	791	866	840	837	610	837	837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MEAN TEMPERATURES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 726390

STATION NAME: ALPENA MI

PERIOD OF RECORD: 54-87

TEMP(F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
GE 65						.7	2.3	.4	.5				.0
GE 80													.3
GE 75					.7	4.8	11.7	6.6	3.0				2.2
GE 70					.5	4.1	15.3	33.7	23.7	8.2	.9		7.1
GE 65					1.8	9.9	31.7	61.3	50.3	18.8	2.9		14.6
GE 60					.1	3.7	20.4	54.1	87.8	75.5	37.4	6.4	23.7
GE 55					.5	8.2	36.1	80.1	97.7	94.1	60.2	18.3	1.4
GE 50					1.0	16.4	57.7	94.7	100.0	99.4	80.7	37.8	.1
GE 45	.1	.4	5.6	31.7	79.7	99.5		99.9	93.8	56.3	14.0	1.6	48.4
GE 40	.7	1.9	12.1	53.6	93.9	100.0		100.0	99.0	80.3	30.4	4.3	56.1
GE 35	3.6	6.6	26.0	78.0	99.3			100.0		94.6	54.5	12.7	64.4
GE 30	14.4	18.0	47.4	90.8	100.0					99.2	74.3	30.2	72.7
GE 25	28.0	33.2	63.1	96.9						100.0	90.7	50.8	80.2
GE 20	43.1	47.4	78.9	99.4							97.0	68.2	86.2
GE 15	60.4	63.8	90.2	100.0							99.3	82.8	91.4
GE 10	76.2	81.0	95.5								99.9	92.6	95.4
GE 5	87.7	89.8	96.6								100.0	97.9	97.8
GE -1	94.4	94.2	99.4									99.5	99.0
GE -5	98.8	98.5	99.4									100.0	99.8
GE -10	99.9	99.7	100.0										100.0
GE -15	100.0	99.9											100.0
GE -20		100.0											100.0
MEAN	17.3	18.6	27.9	41.0	52.0	61.1	66.8	64.6	57.2	47.0	35.4	24.1	42.8
SD	10.503	11.070	10.450	9.270	8.863	7.631	6.270	6.534	8.436	8.523	8.493	9.594	19.348
TOTAL OBS	868	791	866	840	837	810	837	837	840	668	840	868	10104

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 72639C STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	WHOLE DEGREES FAHRENHEIT												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59									90	72	53	48	
60	40	38	54	79	80	85	91	89	93	80	62	54	93
61	51	52	64	63	86	93	89	90	90	80	66	61	93
62	38	37	60	74	94	90	92	93	84	80	59	61	94
63	37	35	68	81	84	94	96	86	83	86	61	43	96
64	44	51	58	84	91	97	94	87	82	80	75	42	97
65	50	46	43	72	87	89	88	95	86	82	71	62	95
66	44	52	67	69	80	94	98	91	90	77	55	51	96
67	49	39	68	66	80	88	87	87	82	85	49	58	88
68	48	44	64	81	78	93	95	92	85	84	73	44	95
69	42	38	50	72	93	86	91	91	85	70	54	40	93
70	44	49	49	79	90	91	92	91	84	80	61	59	92
71	41	46	55	69	83	98	85	86	87	88	64	56	98
72	45	43	48	69	88	87	91	86	77	69	54	43	91
73	52	41	62	76	74	93	92	93	90	80	56	54	93
74	47	48	63	85	82	87	94	90	85	72	70	43	94
75	48	50	49	67	92	93	97	93	74	60	71	61	97
76	35	58	67	86	79	92	92	93	93	82	53	42	93
77	33	42	73	83	90	90	98	88	80	69	62	43	98
78	33	32	50	66	93	91	97	93	84	73	76	42	97
79	32	47	62	77	86	89	93	86	87	77	58	49	93
80	47	39	58	75	89	90	92	87	83	71	61	43	92
81	44	57	67	81	84	93	98	88	80	67	65	44	98
82	36	41	49	78	90	82	94	89	67	77	59	65	94
83	41	53	60	78	73	98	102	93	94	81	62	38	102
84	37	65	51	82	76	90	90	90	79	69	61	57	90
85	33	47	55	89	83	82	90	89	87	72	64	38	90
86	50	35	69	83	90	87	93	83	83	72	66	42	93
87	45	43	65	86									
MEAN	42.4	45.3	58.9	76.8	85.0	90.4	93.0	89.6	85.1	77.0	62.2	45.4	94.3
S.D.	6.117	7.750	9.013	7.115	6.045	4.191	3.823	2.990	4.828	5.891	7.050	8.500	3.101
TOTAL OBS	868	791	868	840	837	810	837	837	840	868	840	868	10104

NOTES: \* (BASED ON LESS THAN FULL MONTHS)  
# (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 59-87

YEAR	WHOLE DEGREES FAHRENHEIT -M-O-N-T-H-S-												ALL MONTHS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
59									29	22	-2	1	
60	-14	-8	-17	16	26	33	39	35	27	23	18	-9	-17
61	-15	-10	-8	17	23	31	39	33	26	25	17	-5	-18
62	-20	-24	-27	11	22	30	39	34	31	24	11	-10	-27
63	-28	-25	-16	14	23	35	39	35	26	21	17	-11	-28
64	-12	-7	0	1	29	28	40	40	26	21	5	-1	-12
65	-19	-13	-7	0	25	30	34	31	26	16	16	-1	-19
66	-15	-9	-2	20	20	26	41	39	29	16	7	-6	-15
67	-18	-18	-17	14	22	39	38	36	30	25	6	-9	-18
68	-21	-14	-2	19	24	36	37	36	40	21	17	-11	-21
69	-9	-7	-1	10	25	32	36	42	30	18	4	-6	-9
70	-18	-23	-8	13	25	36	44	41	29	25	18	-7	-23
71	-16	-18	-3	12	27	36	40	37	31	30	2	-3	-18
72	-11	-11	-16	7	23	31	37	41	30	19	11	-8	-16
73	-9	-17	11	13	25	43	44	43	29	27	19	-12	-17
74	-13	-19	-2	14	23	36	41	40	29	21	10	8	-19
75	-15	-19	-3	13	28	40	42	44	31	22	7	-4	-19
76	-18	-19	2	19	27	40	45	39	31	19	-1	-10	-19
77	-19	-8	9	13	25	33	41	35	37	22	1	-18	-19
78	-15	-24	-12	17	27	34	35	41	35	23	12	-5	-24
79	-18	-37	3	20	28	37	42	39	31	25	10	-1	-37
80	-3	-12	-13	19	31	30	44	49	28	24	12	-17	-17
81	-21	-17	8	19	28	36	42	37	27	19	9	6	-21
82	-21	-12	-17	5	32	39	42	30	33	23	12	-2	-21
83	-7	-6	-2	20	25	30	40	42	33	20	7	-13	-13
84	-21	-8	-8	21	23	39	38	37	28	22	14	1	-21
85	-13	-25	-5	15	30	37	42	41	33	25	13	-18	-25
86	-12	-7	-11	18	26	34	37	37	30	21	9	3	-12
87	-3	-21	5	14									
MEAN	-15.3	-15.4	-5.7	14.4	25.6	34.2	39.9	38.3	30.2	22.1	10.0	-6.0	-19.4
S.D.	5.713	7.453	9.117	5.540	2.911	4.048	2.854	4.168	3.334	3.155	5.922	6.733	5.652
TOTAL OBS	868	791	868	840	837	813	837	837	840	868	840	868	10104

NOTES \* (BASLD ON LESS THAN FULL MONTHS)  
# (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

DRY-BULB TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALFENA MI

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
LST														
DC-02	MEAN	16.8	18.1	26.3	36.8	46.0	52.2	59.8	58.0	52.7	42.3	33.6	24.4	39.0
	SD	11.915	12.713	11.121	8.743	9.045	8.669	8.134	7.371	9.229	9.147	9.606	10.503	17.550
	TOT OBS	930	846	930	900	930	900	930	900	900	930	900	930	10956
D3-05	MEAN	16.2	16.9	24.6	35.3	44.3	50.4	57.7	56.5	51.5	41.4	32.8	24.0	37.7
	SD	12.419	13.275	11.905	9.183	9.068	9.106	8.417	7.800	9.466	9.290	9.429	10.611	17.465
	TOT OBS	930	846	930	900	930	900	930	900	900	930	900	930	10956
D6-08	MEAN	15.9	16.1	24.3	36.8	46.1	55.4	61.8	58.8	52.5	41.2	32.3	23.6	39.0
	SD	12.558	13.725	12.329	9.366	9.148	8.512	7.645	7.556	9.121	8.998	9.436	10.961	18.783
	TOT OBS	930	846	930	900	930	900	930	900	900	930	900	930	10956
D9-11	MEAN	18.2	20.6	30.4	44.5	57.5	64.9	72.3	68.9	60.4	48.1	35.8	25.2	45.7
	SD	11.232	11.903	10.706	11.129	10.923	9.059	6.971	6.563	8.414	7.730	8.906	10.008	20.651
	TOT OBS	930	846	930	900	930	900	930	900	900	930	900	930	10956
12-14	MEAN	22.5	25.9	34.7	48.4	61.5	69.4	77.2	73.5	65.1	52.5	39.6	28.3	50.0
	SD	9.230	10.691	10.537	12.302	11.046	9.713	7.401	7.171	9.368	8.512	9.708	8.871	21.057
	TOT OBS	930	846	930	900	930	900	930	900	900	930	900	930	10956
15-17	MEAN	22.7	26.8	35.5	48.2	61.2	69.1	77.1	73.3	64.7	52.0	39.2	26.2	50.0
	SD	9.146	10.653	10.336	12.191	11.271	9.291	7.642	7.302	9.441	8.519	9.577	9.155	20.796
	TOT OBS	930	846	930	900	930	900	930	900	900	930	900	930	10956
18-20	MEAN	19.4	23.0	31.7	44.0	56.6	64.7	72.4	68.1	59.2	46.4	35.4	25.8	45.7
	SD	10.112	11.089	9.719	10.673	10.420	8.609	7.418	6.877	9.041	8.087	8.725	9.885	20.081
	TOT OBS	930	846	930	898	930	900	930	900	900	930	900	930	10954
21-23	MEAN	17.5	19.9	28.3	39.0	49.2	55.9	63.7	61.0	54.3	43.5	33.9	24.9	41.0
	SD	11.026	12.302	10.176	8.920	8.936	8.043	7.264	6.928	8.859	8.711	9.072	10.664	18.028
	TOT OBS	930	846	930	897	930	900	930	900	900	930	900	930	10953
ALL	MEAN	18.7	20.9	29.5	41.6	53.0	60.3	67.8	64.8	57.5	45.9	35.3	25.5	43.5
	SD	11.307	12.651	11.602	11.512	12.057	11.390	10.607	9.722	10.486	9.643	9.670	10.216	19.923
	TOT OBS	7440	6768	7440	7195	7440	7200	7440	7200	7440	7200	7440	7200	87643

GLOBAL CLIMATOLOGY BRANCH  
USAFMETC  
AIR WEATHER SERVICE/MAC

WEI-BULB TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	
LST															
JC-C2	MEAN	16.0	17.2	25.0	34.5	43.4	49.9	57.3	56.5	51.0	40.5	31.8	23.4	37.3	
	SD	11.615	12.463	10.568	8.087	8.519	7.664	7.226	6.963	8.649	8.387	6.992	10.202	16.688	
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956	
U3-U5	MEAN	15.4	16.2	23.7	33.5	42.1	46.7	55.9	55.2	50.1	39.9	31.2	23.0	36.4	
	SD	12.152	13.039	11.349	8.417	6.549	8.134	7.587	7.467	8.938	8.611	8.952	10.355	16.918	
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956	
06-08	MEAN	15.2	15.6	23.3	34.6	44.8	52.2	58.8	57.1	51.0	39.8	30.9	22.6	37.3	
	SD	12.257	13.487	11.904	8.526	8.312	7.400	6.752	7.150	8.692	8.469	9.028	10.720	17.901	
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956	
09-11	MEAN	17.3	19.4	27.9	39.1	50.0	57.1	64.0	62.8	56.0	44.6	33.6	24.0	41.4	
	SD	10.928	11.549	9.783	8.660	8.640	7.182	5.820	5.781	7.490	7.155	8.398	9.770	18.280	
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956	
12-14	MEAN	20.7	23.4	30.7	41.0	51.8	58.9	65.4	64.3	57.8	46.7	35.8	26.3	43.7	
	SD	8.914	9.968	9.216	8.859	8.654	7.119	5.865	6.099	7.658	7.274	8.504	8.656	17.507	
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956	
15-17	MEAN	20.6	24.0	31.1	40.7	51.7	58.6	65.2	64.1	57.4	46.3	35.4	26.2	43.5	
	SD	8.773	9.811	8.867	8.568	8.419	6.859	5.784	5.966	7.555	7.312	8.360	8.868	17.288	
	TOT OBS	930	846	930	900	930	900	930	930	900	930	900	930	10956	
18-20	MEAN	18.1	21.3	28.6	38.4	49.3	56.5	63.5	62.1	54.9	43.1	33.2	24.5	41.2	
	SD	9.787	10.651	8.921	8.313	8.316	6.855	5.930	6.002	7.678	7.558	8.312	9.619	17.518	
	TOT OBS	930	846	930	898	930	900	930	930	900	930	900	930	10954	
21-23	MEAN	16.6	18.8	26.6	35.9	45.5	52.4	60.0	58.6	52.1	41.4	32.1	23.7	38.7	
	SD	10.711	11.981	9.634	7.939	8.234	7.103	6.487	6.479	8.291	8.017	8.647	10.154	17.068	
	TOT OBS	930	846	930	897	930	900	930	930	900	930	900	930	10953	
ALL	MEAN	17.5	19.5	27.1	37.2	47.3	54.3	61.3	60.1	53.8	42.8	33.0	24.2	39.9	
	SD	10.906	12.056	10.461	8.869	9.176	8.189	7.346	7.358	8.658	8.293	8.820	9.895	17.637	
	HOURS	TOT OBS	7440	6766	7440	7195	7440	7200	7440	7440	7200	7440	7200	7440	87643

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

DE-POINT TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
DC-02	MEAN	12.1	13.2	21.3	30.7	40.2	44.1	55.7	55.5	49.6	38.4	28.6	20.1	34.6
DC-02	SD	12.910	14.031	11.949	9.313	9.651	7.750	7.263	6.974	8.803	8.666	9.681	11.222	18.138
DC-02	TOT OBS	930	846	930	900	930	900	930	900	930	900	930	930	10956
DC-03	MEAN	11.6	12.6	20.4	30.4	39.5	47.3	54.7	54.4	49.0	38.0	28.3	19.9	33.9
DC-03	SD	13.458	14.524	12.547	9.306	9.388	8.017	7.464	7.441	8.957	8.896	9.657	11.434	18.144
DC-03	TOT OBS	930	846	930	900	930	900	930	900	930	900	930	930	10956
U6-06	MEAN	11.4	12.2	20.2	31.1	41.2	49.6	56.8	56.0	49.8	38.0	28.2	19.5	34.6
U6-06	SD	13.501	14.845	13.054	9.491	9.211	7.710	6.955	7.185	8.834	8.818	9.750	11.758	18.869
U6-06	TOT OBS	930	846	930	900	930	900	930	900	930	900	930	930	10956
09-11	MEAN	13.0	15.1	22.5	31.8	42.6	51.0	53.6	58.9	52.6	40.9	29.6	20.4	36.5
09-11	SD	12.397	13.263	11.456	10.178	10.338	8.509	7.356	7.011	8.460	8.224	9.425	11.166	18.794
09-11	TOT OBS	930	846	930	900	930	900	930	900	930	900	930	930	10956
12-14	MEAN	14.7	16.6	22.9	31.6	42.7	51.0	58.0	58.4	52.1	40.4	30.0	21.4	36.8
12-14	SD	11.048	12.291	11.589	10.495	10.572	8.636	8.225	8.006	9.196	8.763	9.718	10.629	18.252
12-14	TOT OBS	930	846	930	900	930	900	930	900	930	900	930	930	10956
15-17	MEAN	14.0	16.6	22.7	30.9	42.5	50.4	57.6	58.1	51.7	40.0	29.6	21.1	36.4
15-17	SD	10.990	12.365	11.480	10.476	10.635	8.672	8.256	7.965	9.112	8.937	9.785	10.828	18.260
15-17	TOT OBS	930	846	930	900	930	900	930	900	930	900	930	930	10956
18-20	MEAN	13.0	15.8	22.4	30.8	41.8	49.8	57.6	58.0	51.6	39.4	29.2	20.6	35.9
18-20	SD	11.517	12.821	11.384	10.252	10.618	8.626	7.958	7.538	8.666	8.637	9.626	11.030	18.386
18-20	TOT OBS	930	846	930	898	930	900	930	900	930	900	930	930	10954
21-23	MEAN	12.2	14.5	22.2	31.1	41.4	49.3	57.3	56.9	50.3	38.8	28.7	20.2	35.4
21-23	SD	12.081	13.722	11.360	9.363	9.786	7.749	7.126	6.799	8.607	8.503	9.580	11.295	18.291
21-23	TOT OBS	930	846	930	897	930	900	930	900	930	900	930	930	10953
ALL	MEAN	12.8	14.6	21.8	31.0	41.5	49.6	57.0	57.0	50.8	39.2	29.1	20.4	35.6
ALL	SD	12.317	13.605	11.903	9.877	10.120	8.309	7.679	7.523	8.913	8.739	9.671	11.105	18.419
ALL	TOT OBS	7440	6768	7440	7195	7440	7200	7440	7200	7440	7200	7440	7440	87643

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: JAN

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN (RELATIVE HUMIDITY)	TOTAL NUM (OBS)
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	99.9	99.7	99.6	96.0	84.3	56.7	25.9	81.6	93C
	03-05	100.0	100.0	100.0	99.9	99.1	97.1	84.3	60.3	28.5	92.3	93C
	06-08	100.0	100.0	100.0	100.0	99.5	97.5	84.6	58.7	28.1	82.4	93C
	09-11	100.0	100.0	100.0	99.8	99.2	95.2	77.7	51.3	22.5	80.3	93C
	12-14	100.0	100.0	100.0	99.4	95.8	80.3	52.3	28.6	11.3	72.4	93C
	15-17	100.0	100.0	100.0	99.1	93.8	73.4	46.0	22.3	9.0	70.0	93C
	18-20	100.0	100.0	100.0	99.7	98.5	89.6	68.3	38.3	15.7	76.5	93C
	21-23	100.0	100.0	100.0	99.8	99.5	96.7	79.8	44.7	20.8	79.6	93C
	TOTALS	100.0	100.0	100.0	99.7	98.1	90.8	72.2	45.1	26.2	78.1	744C

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: FEB

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN (RELATIVE HUMIDITY)	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	99.6	99.1	93.7	31.0	54.7	29.8	81.5	846
	03-05	100.0	100.0	100.0	100.0	99.3	94.9	86.2	61.9	35.5	83.5	846
	06-08	100.0	100.0	100.0	100.0	99.4	96.8	87.4	67.1	38.1	84.7	846
	09-11	100.0	100.0	100.0	99.5	97.5	91.4	75.8	50.5	26.6	79.8	846
	12-14	100.0	100.0	99.6	97.4	86.3	68.4	45.4	25.7	13.1	69.4	846
	15-17	100.0	100.0	99.3	95.7	79.2	61.6	41.8	23.9	10.3	66.9	846
	18-20	100.0	100.0	99.9	96.8	93.0	60.1	60.3	39.8	19.9	74.8	846
	21-23	100.0	100.0	100.0	99.6	97.5	90.5	75.8	51.8	29.8	80.0	846
	TOTALS	100.0	100.0	99.9	98.8	93.9	84.7	69.2	46.9	25.4	77.6	6766

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: MAR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	99.9	98.9	92.9	79.6	58.4	32.3	81.9	93C
	03-05	100.0	100.0	100.0	100.0	98.3	94.8	85.6	65.6	38.0	83.8	93C
	06-08	100.0	100.0	100.0	100.0	98.8	96.6	86.0	68.5	40.0	84.6	93C
	09-11	100.0	100.0	99.7	98.4	91.9	76.9	55.7	38.4	18.9	73.7	93C
	12-14	100.0	99.9	98.4	91.3	72.8	53.3	36.3	23.7	10.6	64.3	93C
	15-17	100.0	99.4	96.9	87.7	67.1	50.9	32.6	22.3	10.4	62.3	93C
	18-20	100.0	99.7	98.5	95.6	84.9	70.8	49.9	33.7	14.8	70.4	93C
	21-23	100.0	100.0	100.0	99.4	96.0	86.8	70.6	50.9	25.1	78.6	93C
	TOTALS	100.0	99.9	99.2	96.5	88.6	77.9	62.0	45.2	23.8	75.0	744C

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 78-87  
MONTH: APR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN [RELATIVE HUMIDITY]	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	99.8	95.1	87.7	71.0	53.1	31.9	79.7	900
	03-05	100.0	100.0	100.0	100.0	97.7	90.8	79.2	65.6	40.8	83.2	900
	06-08	100.0	100.0	100.0	99.4	96.2	88.4	75.7	57.8	34.3	80.9	900
	09-11	100.0	99.9	96.6	85.7	69.8	53.7	38.7	26.9	15.8	64.4	900
	12-14	100.0	98.9	86.6	71.7	55.8	39.8	29.4	19.2	10.4	56.8	900
	15-17	100.0	95.1	83.9	67.7	53.1	40.4	30.8	21.4	11.2	56.4	900
	18-20	100.0	99.3	93.7	83.6	68.3	53.7	38.3	27.4	14.9	63.6	896
	21-23	100.0	100.0	99.8	97.8	91.6	78.1	59.3	43.4	24.3	75.1	897
	TOTALS	100.0	99.5	95.1	88.2	78.5	66.6	52.8	39.4	23.0	70.0	7195

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: MAY

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	99.8	99.5	96.9	89.9	77.4	57.6	31.0	81.3	930
	03-05	100.0	100.0	100.0	99.7	97.3	94.0	84.7	66.2	39.6	84.2	930
	06-08	100.0	100.0	100.0	98.9	94.7	86.3	69.7	49.6	24.9	78.4	930
	09-11	100.0	100.0	96.6	83.2	63.9	47.2	31.2	18.2	9.1	60.7	930
	12-14	100.0	99.1	89.6	66.8	48.0	33.8	22.4	13.3	6.6	53.8	930
	15-17	100.0	99.7	88.9	67.4	49.5	35.9	21.6	13.9	7.2	54.1	930
	18-20	100.0	99.9	94.8	81.0	64.7	48.1	32.8	20.6	11.2	61.1	930
	21-23	100.0	100.0	99.8	98.2	92.2	81.7	64.4	42.0	22.7	76.0	930
	TOTALS	100.0	99.8	96.2	86.8	75.9	64.6	50.5	35.2	19.0	68.7	7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

### RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUN

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	99.8	98.4	96.4	88.9	74.1	47.1	86.4	900
	03-05	100.0	100.0	100.0	100.0	99.8	97.6	92.8	84.1	57.7	89.5	900
	06-08	100.0	100.0	100.0	99.9	98.7	92.0	77.8	57.2	31.1	81.7	900
	09-11	100.0	100.0	99.8	94.0	72.8	47.7	28.9	17.0	8.2	62.7	900
	12-14	100.0	100.0	97.3	78.2	50.4	29.1	17.0	9.4	4.2	54.3	900
	15-17	100.0	100.0	95.9	75.6	50.0	28.8	16.7	9.6	3.7	53.7	900
	18-20	100.0	100.0	98.8	88.8	68.9	45.0	28.0	14.8	5.9	60.8	900
	21-23	100.0	100.0	100.0	99.6	97.4	68.7	75.3	51.1	22.6	79.5	900
	TOTALS	100.0	100.0	99.6	92.1	79.6	65.7	53.2	39.7	22.6	71.1	7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: JUL

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NUM OBS	
		10%	20%	30%	40%	50%	60%	70%	80%			
JUL	00-02	100.0	100.0	100.0	100.0	99.5	97.0	91.7	75.5	44.9	87.0	93C
	03-05	100.0	100.0	100.0	100.0	99.8	99.0	94.9	84.6	57.4	93.2	93C
	06-08	100.0	100.0	100.0	100.0	99.4	96.2	84.6	63.2	34.8	84.2	93C
	09-11	100.0	100.0	99.8	96.1	79.2	52.5	28.9	14.5	5.8	63.5	93C
	12-14	100.0	100.0	96.9	77.5	51.9	29.5	16.2	8.4	2.5	53.7	93C
	15-17	100.0	99.9	95.4	74.3	48.3	31.0	16.7	8.7	3.4	53.3	93C
	18-20	100.0	100.0	98.7	90.2	69.2	49.7	31.3	17.2	5.2	61.8	93C
	21-23	100.0	100.0	100.0	100.0	98.9	91.2	76.9	52.9	23.4	80.5	93C
	TOTALS	100.0	100.0	98.9	92.3	80.8	68.3	55.2	40.6	22.2	71.8	744C

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

### RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: AUG

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN [RELATIVE HUMIDITY]	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	100.0	100.0	99.5	97.4	88.8	61.0	91.2	93C
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	99.0	92.5	70.5	92.9	93C
	06-08	100.0	100.0	100.0	100.0	100.0	99.9	98.0	86.3	55.9	90.5	93C
	09-11	100.0	100.0	100.0	99.0	93.1	75.4	52.0	28.4	9.7	71.6	93C
	12-14	100.0	100.0	99.8	92.0	71.1	46.6	26.0	13.7	4.3	61.0	93C
	15-17	100.0	100.0	99.8	90.1	67.6	48.3	28.3	14.4	4.9	61.0	93C
	18-20	100.0	100.0	100.0	98.1	89.1	73.5	53.2	33.2	13.9	71.5	93L
	21-23	100.0	100.0	100.0	100.0	99.9	98.0	92.7	76.2	39.4	86.8	93C
TOTALS		100.0	100.0	100.0	97.4	90.1	80.1	68.3	54.2	32.1	78.3	744C

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: SEP

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	100.0	99.8	97.8	94.3	83.3	57.7	89.8	900
	03-05	100.0	100.0	100.0	100.0	100.0	99.6	95.6	86.3	65.2	91.4	900
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	95.7	85.9	57.3	90.6	900
	09-11	100.0	100.0	100.0	99.9	96.6	83.2	62.8	42.8	21.9	76.7	900
	12-14	100.0	100.0	99.7	94.4	76.3	52.1	35.8	22.4	10.7	65.1	900
	15-17	100.0	100.0	99.7	93.0	75.6	53.1	36.1	22.6	11.2	65.1	900
	18-20	100.0	100.0	99.9	99.2	95.4	84.3	67.0	46.0	21.7	77.3	900
	21-23	100.0	100.0	100.0	99.9	99.4	96.9	91.3	76.2	45.2	87.1	900
	TOTALS	100.0	100.0	99.9	98.3	92.9	83.4	72.3	58.2	36.4	80.4	7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: OCT

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%		
00-02	100.0	100.0	100.0	99.8	99.1	96.6	89.5	75.6	48.2	86.9	93C
03-05	100.0	100.0	100.0	99.7	99.1	97.4	91.3	79.9	52.5	88.2	93C
06-08	100.0	100.0	100.0	100.0	99.5	98.3	92.5	80.4	51.7	98.5	93C
09-11	100.0	100.0	100.0	99.6	96.9	84.7	66.3	41.8	18.9	76.8	93C
12-14	100.0	100.0	99.5	95.3	80.1	56.8	34.8	18.4	10.1	65.3	93C
15-17	100.0	99.8	98.9	94.3	81.5	58.8	35.7	19.2	8.2	65.4	93C
18-20	100.0	100.0	99.9	99.5	96.6	88.7	68.3	44.0	19.8	77.6	93C
21-23	100.0	100.0	100.0	99.7	98.7	96.7	84.5	65.4	36.8	94.2	93C
TOTALS	100.0	100.0	99.8	98.5	93.9	64.9	70.4	53.1	30.8	79.1	744C

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-86  
MONTH: NOV

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN (RELATIVE HUMIDITY)	TOTAL NUM OBS	
		10%	20%	30%	40%	50%	60%	70%	80%			
NOV	00-02	100.0	100.0	100.0	99.9	98.9	94.6	82.2	60.8	33.9	82.9	90C
	03-05	100.0	100.0	100.0	100.0	99.7	95.7	84.2	67.4	37.8	84.3	90C
	06-08	100.0	100.0	100.0	100.0	100.0	97.8	86.1	71.0	40.8	85.3	90C
	09-11	100.0	100.0	100.0	100.0	99.4	91.8	74.1	51.9	25.9	79.7	90C
	12-14	100.0	100.0	99.8	98.0	89.6	68.6	43.4	29.0	15.9	70.2	90C
	15-17	100.0	100.0	99.0	96.9	88.3	68.0	44.8	29.0	16.7	70.3	90C
	18-20	100.0	100.0	99.8	99.4	97.9	90.6	73.0	49.3	24.1	79.3	90C
	21-23	100.0	100.0	100.0	99.7	98.4	95.0	80.7	59.6	32.3	82.2	90C
	TOTALS	100.0	100.0	99.8	99.2	98.5	87.8	71.1	52.3	28.4	79.3	720C

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

### RELATIVE HUMIDITY

S T A T I O N   N U M B E R : 7 2 6 3 9 0   S T A T I O N   N A M E : A L F E N A   M I

PERIOD OF RECORD: 77-86  
MONTH: DEC

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL HRS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	100.0	100.0	99.7	98.5	89.4	65.4	31.1	83.9	930
	03-05	100.0	100.0	100.0	100.0	99.6	98.2	91.6	68.5	32.3	84.4	930
	06-08	100.0	100.0	100.0	99.9	99.8	98.3	90.3	69.8	32.7	84.6	930
	09-11	100.0	100.0	100.0	100.0	99.2	96.0	84.8	59.2	25.4	82.1	930
	12-14	100.0	100.0	100.0	100.0	98.4	88.0	63.7	39.2	15.2	76.0	930
	15-17	100.0	100.0	100.0	100.0	98.1	86.6	60.9	37.1	16.0	75.4	930
	18-20	100.0	100.0	100.0	100.0	99.4	94.8	79.5	51.8	24.3	80.7	930
	21-23	100.0	100.0	100.0	100.0	99.7	98.3	87.0	59.1	27.5	82.7	930
	TOTALS	100.0	100.0	100.0	100.0	99.2	94.9	80.9	56.3	25.6	81.2	7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87  
MONTH: ALL

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN [RELATIVE] HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.7	98.1	90.8	72.2	45.1	20.2	78.1	744L
FEB		100.0	100.0	99.9	98.8	93.9	84.7	69.2	46.9	25.4	77.6	676E
MAR		100.0	99.9	99.2	96.5	88.6	77.9	62.0	45.2	23.8	75.0	744C
APR		100.0	99.5	95.1	88.2	78.5	66.6	52.8	39.4	23.0	70.0	719E
MAY		100.0	99.8	96.2	66.8	75.9	64.6	50.5	35.2	19.0	68.7	744L
JUN		100.0	100.0	99.0	92.1	79.6	65.7	53.2	39.7	22.6	71.1	720C
JUL		100.0	100.0	98.9	92.3	80.8	68.3	55.2	40.6	22.2	71.8	744C
AUG		100.0	100.0	100.0	97.4	90.1	80.1	68.3	54.2	32.1	78.3	744L
SEP		100.0	100.0	99.9	98.3	92.9	83.4	72.3	58.2	36.4	80.4	720L
OCT		100.0	100.0	99.8	98.5	93.9	84.8	70.4	53.1	30.8	79.1	744C
NOV		100.0	100.0	99.8	99.2	96.5	87.8	71.1	52.3	28.4	79.3	720C
DEC		100.0	100.0	100.0	100.0	99.2	94.8	80.9	56.3	25.6	81.2	744L
TOTALS		100.0	99.9	99.0	95.7	89.0	79.1	64.8	47.2	25.8	75.9	87643

PPPPPPPP	AAAAAA	RRRRRRR	TTTTTTTTT	FFFFFFF
PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTTT	FFFFFFF
PP PP	AA AA	RR RR	TT	FF
PP PP	AA AA	RR RR	TT	FF
PPPPPPPP	AA AA	RRRRRRRR	TT	FFFFF
PPPPPPPP	AAAAAA	RRRRRRR	TT	FFFFF
PP	AAAAAAA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF

PRESSURE SUMMARIES

STATION PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

SEA LEVEL PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

STATION PRESSURE IN INCHES HG FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
01	MEAN	29.221	29.304	29.241	29.199	29.214	29.197	29.232	29.267	29.280	29.280	29.266	29.229	29.244
	SD	.291	.263	.269	.250	.182	.171	.140	.138	.180	.243	.257	.283	.230
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
04	MEAN	29.223	29.302	29.231	29.188	29.207	29.192	29.227	29.260	29.275	29.276	29.266	29.233	29.240
	SD	.297	.267	.274	.260	.189	.179	.145	.144	.185	.250	.254	.279	.235
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
07	MEAN	29.225	29.312	29.245	29.206	29.229	29.213	29.246	29.277	29.292	29.286	29.273	29.235	29.253
	SD	.303	.270	.275	.268	.196	.185	.149	.148	.189	.256	.257	.279	.239
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
10	MEAN	29.246	29.330	29.266	29.215	29.231	29.218	29.250	29.285	29.300	29.299	29.285	29.252	29.264
	SD	.306	.270	.241	.268	.202	.184	.150	.149	.194	.262	.263	.281	.242
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
13	MEAN	29.220	29.311	29.243	29.202	29.214	29.204	29.240	29.272	29.283	29.279	29.260	29.225	29.246
	SD	.306	.267	.277	.257	.201	.179	.143	.145	.190	.257	.265	.281	.239
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
16	MEAN	29.212	29.268	29.217	29.185	29.195	29.189	29.219	29.253	29.260	29.265	29.247	29.216	29.229
	SD	.295	.263	.267	.242	.191	.169	.137	.140	.184	.247	.260	.279	.231
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
19	MEAN	29.234	29.303	29.231	29.193	29.196	29.187	29.214	29.252	29.267	29.284	29.264	29.235	29.238
	SD	.285	.258	.261	.232	.183	.163	.131	.134	.178	.238	.257	.283	.226
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
22	MEAN	29.234	29.306	29.243	29.212	29.215	29.207	29.233	29.270	29.282	29.290	29.265	29.235	29.249
	SD	.283	.260	.263	.234	.181	.163	.132	.132	.178	.238	.258	.286	.226
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
ALL	MEAN	29.227	29.307	29.239	29.200	29.213	29.201	29.233	29.267	29.280	29.282	29.266	29.233	29.245
	SD	.296	.265	.271	.252	.191	.174	.141	.142	.185	.249	.259	.281	.234
	TOT OBS	2460	2256	2480	2398	2480	2400	2480	2480	2400	2480	2400	2480	29214

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

SEA LEVEL PRESSURE IN HRS FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 726390 STATION NAME: ALPENA MI

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
LST														
C1	MEAN	1016.2	1019.1	1016.0	1014.7	1014.9	1014.1	1015.2	1016.4	1017.1	1017.4	1017.2	1016.3	1016.2
	SD	10.321	9.393	9.550	8.760	6.409	6.026	4.942	4.874	6.371	8.565	9.095	9.981	8.171
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C4	MEAN	1016.3	1019.0	1016.2	1014.4	1014.7	1014.0	1015.0	1016.2	1016.9	1017.3	1017.2	1016.4	1016.1
	SD	10.557	9.544	9.719	9.141	6.654	6.296	5.101	5.084	6.558	8.837	8.986	9.860	8.335
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
C7	MEAN	1016.4	1019.4	1016.6	1015.0	1015.5	1014.7	1015.7	1016.8	1017.6	1017.7	1017.6	1016.5	1016.6
	SD	10.749	9.648	9.787	9.417	6.907	6.491	5.244	5.247	6.709	9.059	9.082	9.874	8.465
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
IC	MEAN	1017.1	1020.0	1017.3	1015.3	1015.5	1014.8	1015.9	1017.1	1017.8	1018.1	1018.0	1017.2	1017.0
	SD	10.901	9.646	9.961	9.406	7.091	6.438	5.270	5.265	6.844	9.232	9.284	9.932	8.575
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
I3	MEAN	1016.2	1019.3	1016.6	1014.8	1014.9	1014.4	1015.4	1016.6	1017.2	1017.4	1017.6	1016.2	1016.3
	SD	10.896	9.535	9.795	9.018	7.059	6.263	5.037	5.129	6.767	9.010	9.329	9.916	8.440
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
I6	MEAN	1015.9	1018.5	1015.7	1014.2	1014.3	1013.9	1014.7	1015.9	1016.4	1016.9	1016.6	1015.9	1015.7
	SD	10.434	9.346	9.461	8.530	6.722	5.937	4.818	4.933	6.535	8.700	9.183	9.859	8.173
	TOT OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
I9	MEAN	1016.8	1019.1	1016.5	1014.6	1014.3	1013.8	1014.5	1016.0	1016.7	1017.6	1017.3	1016.6	1016.1
	SD	10.109	9.238	9.267	8.152	6.445	5.751	4.615	4.708	6.349	8.411	9.097	10.030	8.039
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
I22	MEAN	1016.6	1019.2	1016.7	1015.2	1015.0	1014.5	1015.2	1016.6	1017.2	1017.8	1017.3	1016.5	1016.5
	SD	10.084	9.331	9.399	8.212	6.374	5.738	4.635	4.633	6.312	8.385	9.129	10.136	8.028
	TOT OBS	310	282	310	299	310	300	310	310	300	310	300	310	3651
ALL	MEAN	1016.5	1019.2	1016.5	1014.8	1014.9	1014.3	1015.2	1016.4	1017.1	1017.5	1017.3	1016.4	1016.3
	SD	10.496	9.455	9.615	8.837	6.718	6.126	4.973	4.996	6.563	8.774	9.142	9.941	8.287
	TOT OBS	2480	2256	2480	2398	2480	2400	2480	2480	2400	2480	2400	2480	29214

END

DATE

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